



## Second term Questions Bank



## Question 01

## Choose the correct answer

- 1 At the noon, the Sun appears in the ..... in the sky.  
 (a) east (b) west (c) left (d) center  
 (Cairo 2023)
- 2 The imaginary line that passes through Earth's center is called.....  
 (a) the day (b) the axis (c) the night (d) the pole  
 (Giza 2023)
- 3 It is the orbiting of an object around another object .....  
 (a) rotation (b) spinning (c) revolution (d) gravity  
 (Alex. 2023)
- 4 The Sun appears as it moves from .....to .....  
 (a) south — north (b) west — east (c) east — west (d) north — south  
 (Luxor 2023)
- 5 The solar system consists of some.....revolve around.....  
 (a) Sun — planets (b) moons — planets (c) planets — Sun (d) planets — moon  
 (Cairo2023)
- 6 The fastest planet revolves around the sun is.....  
 (a) the Sun (b) Earth (c) Jupiter (d) the moon  
 (Alex. 2023)
- 7 The sun and other stars are made up of.....  
 (a) hot solids (b) cold solids (c) hot gases (d) cold liquids  
 (Cairo2023)
- 8 The group of stars that make a certain shape in the sky is called.....  
 (a) wetland (b) biosphere (c) constellation (d) gravity  
 (Alex. 2023)
- 9 ..... and ..... don't make their own light.  
 (a) Moons — stars (b) Sun — planets (c) Stars — Sun (d) Moons — planets  
 (Gharbia 2023)





- 10 ..... gives heat and light.  
 (a) Stars (b) Moons (c) Plants (d) Satellites  
 (Dakahlia 2023)
- 11 The moon phase in which a small part is illuminated is called.....  
 (a) new moon (b) crescent (c) gibbous (d) full moon  
 (school book)
- 12 The star that is present in our solar system is.....  
 (a) the moon (b) the Sun (c) Earth (d) Jupiter  
 (sohag 2023)
- 13 ..... is/are located at the center of our solar system.  
 (a) moon and Sun (b) moon and Earth (c) Sun only (d) Earth only  
 (Cairo 2023)
- 14 The Sun is ..... sized star.  
 (a) small (b) medium (c) large (d) giant  
 (Menofia 2023)
- 15 Most of heat and light energy of the Sun are produced due to the reaction between .....  
 (a) hydrogen rocks (b) hydrogen and helium (c) helium and sand (d) rock and sand  
 (Karfr El-Sh2023)
- 16 Constellations appear..... in the sky during the year.  
 (a) at different positions (b) at the same position (c) in winter only (d) in summer only  
 (Qalyoubia 2023)
- 17 ..... are celestial bodies that make their own light.  
 (a) Moons - planets (b) Sun - stars (c) Sun - planets (d) Earth - Sun  
 (Sharkia 2023)
- 18 Solar system includes ..... at its center and eight planets around it.  
 (a) the moon (b) the Sun (c) Earth (d) Jupiter  
 (Alex. 2023)
- 19 At noon the sun forms ..... shadow of objects.  
 (a) longest (b) shortest (c) medium (d) changes  
 (Alex. 2023)





- 20** Day and night phenomenon occurs due to the rotation of Earth around  
 (a) the Sun (b) its axis (c) the moon (d) solar system  
 (Alex. 2023)
- 21** Revolution of moon around Earth causes .....  
 (a) constellation (b) rotation (c) moon phases (d) planets gravity  
 (Cairo 2023)
- 22** The shortest shadow of an object happens .....  
 (a) in morning (b) in afternoon (c) at noon (d) at night  
 (Cairo 2023)
- 23** The number of stars in the solar system is .....  
 (a) one (b) eight (c) nine (d) two  
 (Giza 2023)
- 24** ..... are celestial bodies that revolve around the Sun in fixed paths.  
 (a) Stars and moon (b) eight planets (c) Sun and Earth (d) Sun and Jupiter  
 (Alex. 2023)
- 25** We see the moon shining in the sky, because it.....  
 (a) absorbs sunlight (b) produces light (c) lets light pass (d) reflects sunlight  
 (Giza 2023)
- 26** The Sun is a star because it.....  
 (a) reflects light (b) absorbs light. (c) gives off light (d) allows light pass  
 (Cairo 2023)
- 27** Heat and light energies of the Sun result from.....  
 (a) explosion of the extremely hot gases inside the Sun.  
 (b) the apparent of the Sun motion daily.  
 (c) revolution of Earth in an elliptical orbit around the Sun.  
 (d) revolution of the moon around Earth in front of the Sun. (school book)
- 28** Stars' illumination and shining in the sky is considered an evidence that.....  
 (a) they are composed of extremely hot gases.  
 (b) they are under the effect of Sun gravity.  
 (c) they belong to our solar system.  
 (d) they are from the followers of the Sun. (school book)





29 The Sequence of day and night is due to .....

- a Revolution of the moon around the Earth.
- b Revolution of the Earth around the sun
- c Rotation of the moon on its axis.
- d Rotation of the Earth on its axis

(school book)

30 If you travel from your country to another, the Sun will.....

- a rise in the west and set in the east.
- b rise in the south and set in the north.
- c rise in the east and set in the west.
- d rise in the north and set in the south.

(Sharkia 2023)

31 One of the results of the revolution of Earth in elliptical orbit around the Sun and the inclination of its axis is.....

- a differences in sunrise time and the sunset time, day after another.
- b differences in sunrise time, day after another.
- c differences in sunset time, day after another.
- d stability of sunrise time and sunset time, throughout the year.

school book

32 Rotation of Earth on its axis from west to east leads to the appearance of.....

- a the moon and stars as if they rise and set.
- b sun as if it is still without movement.
- c different moon phases.
- d Earth as if it is still without movement.

(school book )

33 Formation of shadows of objects happens due to .....

- a revolution of Earth around the Sun.
- b revolution of Earth around the moon.
- c appearance of stars as they move in the sky.
- d appearance of the sun as it moves in the sky.

(Assiut 2023)

34 Lengths and angles of shadows of objects are affected by.....

- a the change in the position of the Sun in the sky.
- b the distance between Earth and the Sun.
- c the revolution of Earth around the sun.
- d the revolution of the moon around Earth.

(Cairo2023)





- 35** The reason of seeing the apparent movement of the stars at night, although they are not changing their locations.....
- a** the rotation of the moon on its axis.
  - b** the apparent motion of the Sun every day.
  - c** rotation of Earth on its axis in front of the Sun.
  - d** revolution of Earth in an elliptical orbit around Sun.
- 36** The moon seems to be lighted in the sky due to.....
- a** reflection of Earth's light on the moon's surface.
  - b** reflection of stars light on the moon's surface.
  - c** reflection of Sunlight on the moon's surface
  - d** self-lighting of the moon at night. (school book )
- 37** The idea of sundial depends on .....
- a** formation of shadows.
  - b** rotation of object around its axis.
  - c** the motion of the moon.
  - d** falling of objects under the effect of gravity. (school book )
- 38** When the moon is in the full moon phase, this indicates that.....
- a** half of the moon's face is illuminated.
  - b** more than half of the moon's face is illuminated.
  - c** the moon's face if completely darkened.
  - d** the moon's face is illuminated with sunlight. (school book )
- 39** The appearance of the full moon in the sky shows that the face of the moon facing Earth is.....
- a** fully illuminated with sunlight.
  - b** half illuminated with sunlight.
  - c** three quarters of it illuminated with sunlight.
  - d** a quarter of it illuminated with sunlight. (school book )
- 40** When the moon is in the new moon phase, this means that it is in the.....
- a** start of the lunar month.
  - b** first quarter
  - c** second quarter
  - d** end of its monthly cycle. (school book )
- 41** The Earth's axis is an imaginary line that passes through.....
- a** the two poles of Earth
  - b** the center of the moon





- 42 c the center of the solar system d the center of the Sun.

(Alex. 2023)

- 43 At midday, the Sun is perpendicular to you. ....

- a from your right side b from your left side

- 44 c above your head d in front of you

(Qalyoubia 2023)

- 45 Waste water engineers work in Egypt in.....

- a Ras Mohammed protector b Lake Bardwell c Bahr Al Baqar plant d electrical power plant

( school book )

Prevent developing of Ras Mohamed Protectorate is considered as an example of .....

- 47 a preservation b pollution c sustainability d consumption

(Cairo 2023)

- 48 All the following materials can be used to filter wastewater in simple water filter, except .....

- a cotton b wood c charcoal d sand

- 49 .....is considered as a type of friction force.

- a Magnetism b gravity c electric d air resistance

- 50 Earth's gravity pulls down things toward Earth.....

- a in inclined angle b perpendicularly c horizontally forward d vertically upwards

- 51 Object moves under the effect of..... forces.

- a pull - push b pull - drag c revolving and push d pull and attraction

- 52 ..... is a factor that acts against gravity force.

- a Magnetism b mass of object c air resistance d Object shape

- 53 Which of the following is found between porous of rocks below Earth surface?

- a Ice b Groundwater c Oceans d Water vapour

- 54 Rivers and streams contain .....water, while ponds contain .....water.

- a salt – fresh b fresh – salt c running – still d still – running





- 55 Among animals that can be found in ponds are ..... and .....
- a lions – salamanders    b dogs – frogs    c frogs – salamanders    d foxes – bears
- 56 Among the sources of water which human can use for drinking .....
- a seas    b oceans    c saltwater lakes    d rivers
- 57 Humans can get their needs of .....from rivers, streams and groundwater.
- a oxygen gas    b carbon dioxide gas    c salt water    d fresh water
- 58 About 10% of the world's animal species live in freshwater bodies like .....
- a rivers and seas    b streams and seas    c oceans and seas    d rivers and streams
- 59 Magnetism is a kind of..... force.
- a attraction only    b repulsion only    c visible    d invisible
- 60 Earth attracts objects towards.....
- a its center    b the sky    c the moon    d the sun
- 61 As the mass of the object increases, its ..... increases.
- a movement    b force    c gravity    d illumination
- 62 The gravitational force of an object ..... as its mass increase.
- a equal zero    b increase    c decrease    d doesn't change
- 63 Water filters are used to remove ..... materials from polluted water.
- a harmful    b solar system    c day and night    d electricity
- 64 ..... of resources, requires managing its usage methods.
- a Depletion    b Sustainability    c Renewability    d Scarcity
- 65 Pollution is one of the problems to achieve (affect) ..... of resources.
- a preservation    b sustainability    c restoration    d renewability
- 66 All the following are from sources of water on the Earth, except .....
- a groundwater    b ponds    c glaciers    d molten rocks
- 67 The amount if salt water on the Earth is ..... the amount of fresh water.
- a larger than    b smaller than    c equal to    d half
- 68 ..... are formed when water collects in low-lying areas.
- a Seas    b Oceans    c Lakes    d Rivers





- 69 The force of ..... keeps the planets on their paths around the sun  
 (a) friction (b) gravity (c) air resistance (d) electricity
- 70 The acting force on the moon to make it revolves around the earth is.....  
 (a) Earth's gravity (b) sun's gravity (c) moon's gravity (d) Mars's gravity
- 71 Mountains and valleys are parts of .....  
 (a) geosphere (b) atmosphere (c) biosphere (d) hydrosphere
- 72 96.5% of Earth's water is .....  
 (a) salt water (b) boiling water (c) fresh water (d) frozen water
- 73 A boy on slide moves down toward due to the effect off .....  
 (a) friction (b) gravity (c) temperature of air (d) boy's Hight
- 74 Gravity keeps the moon revolve in orbit around.....  
 (a) The Sun (b) the earth (c) Itself (d) another moon
- 75 ..... process is used to get filtered water from polluted water.  
 (a) Recycling (b) Sustainability (c) Preservation (d) Conservation
- 76 Rainwater is a part of .....  
 (a) biosphere (b) hydrosphere (c) geosphere (d) atmosphere
- 77 Mountains and valleys are parts of .....  
 (a) geosphere (b) atmosphere (c) biosphere (d) hydrosphere
- 78 96.5% of Earth's water is .....  
 (a) salt water (b) boiling water (c) fresh water (d) frozen water
- 79 A person can exert a weak force to move.....  
 (a) a big truck (b) a real car (c) a very big rock (d) a toy car
- 80 The pulling force of a magnet attracts materials made of  
 (a) Wood (b) plastic (c) iron (d) rocks
- 81 Magnet attracting paper clips is evidence that magnet.....  
 (a) needs force (b) has a force (c) loses force (d) gains force
- 82 The area of land where all the water flows in one direction to a common location as ocean is called .....  
 (a) tributary (b) estuary (c) wetland (d) watershed





- 83 ..... are parts of geosphere.  
 (a) Plants (b) Rocks (c) Gases (d) Water bodies
- 84 An area of land where water flows in a specific path from a higher altitude to a lower altitude area is .....  
 (a) river (b) sea (c) lake (d) ocean
- 85 It results from atmosphere and biosphere interaction: .....  
 (a) availability of oxygen gas (b) soil fertility (c) increased pollution (d) photosynthesis
- 86 An example of saltwater ecosystem is .....  
 (a) Nile river (b) Lake Assal (c) glacier (d) Lake Nasser
- 87 Most of fresh water on Earth is found in the form of .....  
 (a) groundwater (b) rivers (c) glacier (d) streams
- 88 Two magnets move away from each other when there is ..... force between them.  
 (a) Gravitational (b) repulsion (c) contact (d) pulling
- 89 A force that is created between two attached surfaces leading to slow movement is called..... force.  
 (a) pushing (b) dragging (c) friction (d) pulling
- 90 The force that causes skydivers to moves down is called .....  
 (a) friction (b) gravity (c) air resistance (d) electricity
- 91 Gravity depends on the ..... of a body  
 (a) Speed (b) mass (c) length (d) age
- 92 A group of plants and animals which live together in a large area characterized by its climate is called.....  
 (a) atmosphere (b) hydrosphere (c) biome (d) lithosphere
- 93 A table stands on the ground needs.....to move.  
 (a) Sunlight (b) mass (c) force (d) air
- 94 The force of.....keeps the planets on their paths around the Sun.  
 (a) air resistance (b) friction (c) gravity (d) electricity
- 95 The acting force on the moon to make it revolves around the Earth is.....  
 (a) Earth's gravity (b) Sun's gravity (c) moon's gravity (d) Mars's gravity
- 96 If the distance between the moon and Earth is doubled, the force of gravity.....between them.  
 (a) increases (b) vanishes (c) decreases (d) doesn't change





- 97 A force that is created between two attached surfaces leading to slow movement is called ..... force.  
 (a) Pushing (b) dragging (c) friction (d) pulling
- 98 In the late afternoon, the sun appears in the..... direction in the sky.  
 (a) east (b) west (c) north (d) south
- 99 The Earth rotates .....on its axis.  
 (a) Clockwise (b) Counter clockwise (c) from north to south (d) From south to north

Question 02

put ( true ) or ( false )

- 1 The rotation of Earth around the Sun causes day and night phenomenon. ( )  
 (Cairo 2023)
- 2 The Earth takes (12) hours to make a complete cycle on its axis. ( )  
 ( Qalyoubia 2023)
- 3 Earth revolves around the Sun once every 24 hours ( )  
 ( Kafr El-Sheikh 2023)
- 4 Earth revolves around the Sun once every one day. ( )  
 (Gharbia 2023)
- 5 The Sun doesn't revolve around Earth ( )  
 (Dakahlia 2023)
- 6 Jupiter is the fastest planet that rotates on its axis in the solar system. ( )  
 ( Aswan 2023)
- 7 Our solar system contains eight planets. ( )  
 (Giza 2023)
- 8 Constellations have similar shapes in the sky ( )  
 (Alex. 2023)
- 9 The constellations help us to determine the main directions. ( )  
 (Cairo 2023)
- 10 Length of shadows of different objects don't change during day. ( )  
 (Cairo 2023)
- 11 Stars are solid objects made up of rocks. ( )  
 (Cairo 2023)
- 12 The Sun is the biggest star in the universe ( )  
 (Cairo 2023)
- 13 All people in different countries see the star in the sky at the same time. ( )  
 (Giza 2023)





- 14 The stars are far away from Earth. ( )  
(Giza 2023)
- 15 We can feel the movement of Earth easily. ( )  
(Giza 2023)
- 16 Constellations appear in the sky are different in winter than in summer ( )  
(Menofia 2023)
- 17 The moon reflects sunlight that falls on it. ( )  
(Menofia 2023)
- 18 Constellations have similar shapes in the sky. ( )  
(Luxor 2023)
- 19 The moon seems shiny because it absorbs sunlight ( )  
(Qena 2023)
- 20 The Sun is necessary for continuity of life on Earth ( )  
(Cairo 2023)
- 21 The scientist Copernicus proved that the Earth is the center of the solar system. ( )  
(Fayoum 2023)
- 22 The Sun is the biggest star in the universe. ( )  
(Cairo 2023)
- 23 Moon and stars make their own light. ( )  
(Alex. 2023)
- 24 The sun appears in the same place in the sky all the day. ( )  
(El bajour 2023)
- 25 The length of day and night are always equal during the whole year. ( )  
(El bajour 2023)
- 26 Stars are made up of hot gases ( )  
(El bajour 2023)
- 27 Stars are superhot gaseous sphere most of them are helium and hydrogen ( )  
( el-Bhaira 2023)
- 28 Galileo binoculars help scientists to see distant objects in space with more details. ( )  
( el-Bhaira 2023)
- 29 Among the sources of fresh water are rains ( )
- 30 The type of water in rivers is fresh water only. ( )
- 31 We must conserve fresh water, because it is limited on Earth. ( )





- 32 High quality of fresh water leads to the death of marine organisms live in it. ( )
- 33 The two main risks that threaten fresh water on Earth are scarcity and conservation of fresh water. ( )
- 34 Building factories is from human strategies to control and conserve fresh water. ( )
- 35 The gravity of moon affects the ocean tides. ( )
- 36 Earth pulls object toward its moon. ( )
- 37 Living organisms are parts of geosphere. ( )
- 38 Gases which surround the Earth represent the atmosphere. ( )
- 39 Some ponds and lakes may dry up in winter months ( )
- 40 Rivers and streams are running freshwater bodies. ( )
- 41 The moon stays in fixed orbit around Earth due to the gravity between them. ( )
- 42 Gravity of Earth pushes objects towards its center. ( )
- 43 All objects are pulled toward the ground due to the effect of gravity. ( )
- 44 Magnetism is a type of friction force ( )
- 45 Gravity pulls objects toward the center of Earth. ( )
- 46 Earth pulls living organisms only toward its center. ( )
- 47 Air resistance slows down the speed of parachutes. ( )
- 48 Air resistance is a factor that speeds up the falling objects toward the earth. ( )
- 49 The planets revolve around the Sun by the effect of gravitational pushing force. ( )
- 50 Parachute helps in increasing the velocity of object falling to the ground. ( )
- 51 The Earth's gravity keeps all planets in their orbits. ( )
- 52 The force of magnet is always attraction force only. ( )
- 53 As the mass of the object increases, its gravity increases ( )
- 54 Magnet has the force of attracting metals such as silver and gold. ( )
- 55 The orbit of each planet has an ellipse shape. ( )
- 56 The scientist Nicolaus Copernicus stated that Earth revolves around the Sun. ( )
- 57 Earth rotates around its axis at a speed nearly equals 107000 km/hour ( )





- 58 The planets revolve around the Sun in a circular orbit. ( )
- 59 Cotton can be used as a filter to remove waste from water ( )
- 60 Water is important for growing of living organisms. ( )
- 61 Weathering of rocks as a result of the effect of rains is an example of an interaction between hydrosphere and biosphere. ( )
- 62 Oceans, lakes and rivers are included in the hydrosphere ( )
- 63 Fresh water forms about 3.5% of water on Earth. ( )
- 64 Some human activities are responsible for water pollution. ( )
- 65 Half of the moon is illuminated at the first quarter phase of the moon. ( )
- 66 When we visit planetarium, we will see images about living organisms ( )
- 67 Revolution is the movement of an object around another object ( )

### Question 03

### Complete the following sentences

- 1 In early morning, the Sun appears in ....., while at noon it appears in ..... (Cairo 2023)
- 2 Seasons phenomenon occurs due to the revolution of Earth around the ..... (Giza2023)
- 3 The sun located in the center of the ..... (Cairo 2023)
- 4 At noon the Sun forms ..... shadow of an object. (Luxor 2023)
- 5 Stars seem bright because they are made up of ..... (Cairo 2023)
- 6 Planets and .....can't make their own light. (sohag 2023)
- 7 Stars are made up of ..... (sohag 2023)
- 8 The moon seems bright as it ..... sunlight. (Luxor 2023)
- 9 The Sun produces .....energy that warms the Earth. (Alex. 2023)





- 10 The wide space that contains celestial object is called .....  
( el-Behaira 2023)
- 11 A group of stars, planets and gases held together by gravity is called .....  
( Karfr El-Sheikh 2023)
- 12 The sun is a .....that can give out light.  
(Alex. 2023)
- 13 The Sun appears in the .....direction during the early morning.  
(Alex. 2023)
- 14 The Earth rotates around its axis once every .....hours.  
( Giza2023)
- 15 In the solar system all planets revolves in fixed paths called .....
- 16 We must take a quick shower to conserve .....
- 17 The Earth's system that includes all living organisms is called.....  
A rat that digs a burrow in the soil is an example of the interaction between .....and geosphere.
- 18 Irrigation of plants is an example of the interaction between two Earth's systems which are..... and .....
- 19 The amount of fresh water on Earth is .....than the amount of salt water.
- 20 Kelp, starfish and mosses fish live in .....which are considered the largest saltwater ecosystems on the Earth.
- 21 When the rate of rainfall decreases, the level of water in rivers will .....causing .....
- 22 Clothes can be made from .....products or .....products.
- 23 Cotton, .....and .....can be used in making a simple water filter.
- 24 Wastewater engineers can test the quality of .....by checking for the amount of .....in water.
- 25 Water treatment plants recycle the .....by removing harmful materials from it to reuse it again.
- 26 When a river meets a sea, an .....is formed.
- 27 When the water is stored in the cracks and spaces of underground rocks, ..... is formed.
- 28 In high Dam, water is used to generate .....
- 29 ..... water is found in rivers, most of lakes and streams.
- 30 We must take a quick shower to conserve .....
- 31 Building a .....cross a tributary can change the amount of water in it.
- 32 Water treatment plants recycle the .....by removing harmful materials from it to reuse the water again.
- 33





- 34 To conserve water, we can .....the time of washing our hands.
- 35 If we use fossil fuels wisely without negatively affecting their amount in the future, this is called .....
- 36 The moon moves around .....due to gravity.
- 37 The gravity of the moon affects the phenomena of ocean .....
- 38 When a boy moves down a slide, this is due to the force of.....
- 39 Force may push or .....the object to make it move.
- 40 Magnetism is a force that attracts .....objects.
- 41 If the mass of the moon increases than its real mass, its gravitational attraction will .....
- 42 .....is a pull or push that is applied to an object.
- 43 Gravity pulls objects toward the .....of Earth.
- 44 The gravity of Earth is .....than that of the moon because Earth has a greater mass than the moon.
- 45 Magnet can attract some objects by a force called .....
- 46 The force between two magnets is called .....
- 47 .....revolves around the sun in fixed orbit.
- 48 The direction of Earth's gravity is always toward .....of Earth.
- 49 The force of gravity is always .....force, and it changes the .....of movement.
- 50 .....force opposes the motion of the body and slows down its speed.
- 51 Air resistance is a type of .....force.
- 52 The force that keeps all planets around the Sun is called .....
- 53 Earth revolves around the Sun in a fixed path that has .....shape
- 54 Any object has .....depending on its mass.
- 55 .....is a force generated between two touching surfaces.
- 56 When the Earth is between the moon and the sun ,the moon appears in the .....phase
- 57 The axis of Earth planet is .....
- 58 Every night, new stars appear from .....
- 59 The Earth is surrounded by .....that allows some light waves to pass through it and blocks others





Question 04

write scientific term for each of the following

- 1 The spinning of Earth on its axis. (Cairo 2023) ( )
- 2 An imaginary line passing through the Earth from the north pole to the south pole. ( Aswan 2023) ( )
- 3 The group of stars forms a pattern in the sky. (Luxor 2023) ( )
- 4 It is a group of stars, planets and gases held together by gravity. (Alex. 2023) ( )
- 5 Dark celestial object revolves around Earth and reflects the sun light. (Alex. 2023) ( )
- 6 A medium size star that is the center of the solar system. (Alex. 2023) ( )
- 7 They are giant spheres of superhot gases most of them are hydrogen and helium. ( ) ( )
- 8 A special building with dome ceiling and is used to see images of celestial bodies. ( ) ( )
- 9 The large water body that is surrounded by land. ( ) ( )
- 10 The water bodies that surround the continents. ( ) ( )
- 11 It is an area of land where all the water flows in one direction to a common location such as an ocean, a sea or other large water body. ( ) ( )
- 12 The action of control reaching of humans to the natural resources or using them. ( ) ( )
- 13 It is the water that has already been used in homes and different industries. ( ) ( )
- 14 They are small water bodies such as small creeks or streams that flows into bigger rivers ( ) ( )
- 15 A force that pulls object down toward the Earth's center ( ) ( )
- 16 The effect that pulls or pushes an object to make it moves. ( ) ( )
- 17 An invisible force that attracts iron paper clips to the magnet. ( ) ( )





- 18 The force that is found between two magnets or between the magnet and an object. ( )
- 19 The force that opposes the motion of a body across a solid, a liquid or gas. ( )
- 20 A type of pollution that occurs as a result of throwing waste in rivers and seas. ( )
- 21 The system that includes humans, animals and plants of Earth. ( )
- 22 A large area of the world that has similar soil, climate, plants and animals. ( )
- 23 The area along the coast that disappears at the high tide and appears at the low tide. ( )
- 24 A force between two objects in contact with each other's, and it affects in the opposite direction of movement force. ( )
- 25 A type of friction force that opposes the movement of an object as it passes through air. ( )
- 26 The law which states that the force of gravity is constant and acts on all objects in the same way. ( )
- 27 A scientist proved that the Sun is the center of our solar system. ( )
- 28 A phenomenon that happens due to the increase of the level of water in rivers and streams. ( )
- 29 A phenomenon that happens due to the decrease of the level of water in rivers and streams ( )
- 30 A phenomenon takes place in oceans and seas due to gravity of moon. ( )
- 31 The scientists who are responsible for making amazing realistic show in planetarium ( )

### Question 05

### Cross out the odd word

- 1 Friction — The Sun — Gravity — Air resistance.
- 2 Nickel — Cobalt — wood — iron.
- 3 Moon - Galileo binocular - International Space Station - Hubble Space Telescope
- 4 Full moon \_ first crescent \_ Galileo binocular \_ new moon





Question 06

give reason

- 1 Occurrence of day and night. (Suez 2023)  
.....
- 2 The regular pattern of day and night. (Alex. 2023)  
.....
- 3 Occurrence of seasons. (Giza 2023)  
.....
- 4 Although Earth rotates on its axis, we don't feel its movement. (Luxor 2023)  
.....
- 5 The length of the shadow of an object changes throughout the day. (Cairo 2023)  
.....
- 6 The moon appears bright in the sky at night. (Menofia 2023)  
.....
- 7 Earth and the moon are not considered stars.  
.....
- 8 The Sun looks much larger to us than other stars. (Giza 2023)  
.....
- 9 Water is important for all plants on Earth.  
.....
- 10 Hiding of worms inside the soil is an example of an interaction between two Earth's spheres.  
.....
- 11 Farms near tributaries may cause water pollution  
.....
- 12 We should turn off water during washing dishes.  
.....
- 13 Countries prevent using or developing natural resource in some protected areas of land.  
.....





- 14 Cutting down too many trees of forests leads to soil erosion.  
.....
- 15 Scientists recycle fresh waste water to get filtered water again.  
.....
- 16 We must conserve fresh water.  
.....
- 17 You should turn off water tap during brushing your teeth.  
.....
- 18 Groundwater is called by this name.  
.....
- 19 The quality of fresh water affects the life of living organisms live in it.  
.....
- 20 The force of gravity has an important role in the solar system.  
.....
- 21 The moon rotates around the Earth in a fixed orbit.  
.....
- 22 After the skydivers jump from a plane, they always move toward the ground.  
.....
- 23 The moon is attached to the earth.  
.....
- 24 Paper clips are pulled towards the magnet  
.....
- 25 Gravity of the earth is greater than the gravity of the moon.  
.....
- 26 Gravitational force depends on distance  
.....
- 27 Planets revolve around the Sun in fixed orbits  
.....





- 28 You always land on the ground when you jump up.  
.....
- 29 Air resistance affects object movement which falls from a height.  
.....
- 30 Some iron nails are attracted to a magnet.  
.....
- 31 The skydivers land safely when he open his parachute.  
.....

## Question 07

## what happens

- 1 Earth doesn't rotate on its axis. (Aswan 2023)  
.....
- 2 Half of Earth faces the Sun. (Cairo 2023)  
.....
- 3 The distance between the earth and the moon increases twice.  
.....
- 4 The mass of moon becomes twice its real mass.  
.....
- 5 The mass of the moon decreases to half.  
.....
- 6 The gravity of the Sun if its mass decreases than it is now.  
.....
- 7 Absence of gravity between Sun and the planets of solar system.  
.....
- 8 You throw a basketball into the air.  
.....
- 9 A magnet is placed near to some paper clips  
.....
- 10 The gravity of the earth is a repulsion force not an attraction force.  
.....





- 11 A person uses the brake of a moving bicycle.  
.....
- 12 To the speed of skydiver if he opens his parachute during landing.  
.....
- 13 If a metal ball and a feather are fallen down from a tower.  
.....
- 14 The river water meets the sea water.  
.....
- 15 People don't conserve fresh water.  
.....
- 16 Water is collected in a low-laying area.  
.....
- 17 The quality of fresh water affects the life of living organisms live in it.  
.....
- 18 You mix clear water with small amount of mud.  
.....
- 19 Fish are eaten more than they are replaced in the ocean.  
.....
- 20 The rate of rain fall increases on a river.  
.....
- 21 Polluted water is passed through a water filter.  
.....
- 22 A trash dump is established near a tributary that is connected with river  
.....

انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق







## Second term Questions Bank



### Question 01

Choose the correct answer

- 1 At the noon, the Sun appears in the ..... in the sky.  
 (a) east (b) west (c) left (d) **center**  
 (Cairo 2023)
- 2 The imaginary line that passes through Earth's center is called.....  
 (a) the day (b) **the axis** (c) the night (d) the pole  
 (Giza 2023)
- 3 It is the orbiting of an object around another object .....  
 (a) rotation (b) spinning (c) **revolution** (d) gravity  
 (Alex. 2023)
- 4 The Sun appears as it moves from .....to .....  
 (a) south — north (b) west — east (c) **east — west** (d) north — south  
 (Luxor 2023)
- 5 The solar system consists of some.....revolve around.....  
 (a) Sun — planets (b) moons — planets (c) **planets — Sun** (d) planets — moon  
 (Cairo2023)
- 6 The fastest planet revolves around the sun is.....  
 (a) the Sun (b) Earth (c) **Jupiter** (d) the moon  
 (Alex. 2023)
- 7 The sun and other stars are made up of.....  
 (a) hot solids (b) cold solids (c) **hot gases** (d) cold liquids  
 (Cairo2023)
- 8 The group of stars that make a certain shape in the sky is called.....  
 (a) wetland (b) biosphere (c) **constellation** (d) gravity  
 (Alex. 2023)
- 9 ..... and ..... don't make their own light.  
 (a) Moons — stars (b) Sun — planets (c) Stars — Sun (d) **Moons — planets**  
 (Gharbia 2023)





- 10 ..... gives heat and light.  
 (a) Stars (b) Moons (c) Plants (d) Satellites  
 (Dakahlia 2023)
- 11 The moon phase in which a small part is illuminated is called.....  
 (a) new moon (b) crescent (c) gibbous (d) full moon  
 (school book)
- 12 The star that is present in our solar system is.....  
 (a) the moon (b) the Sun (c) Earth (d) Jupiter  
 (sohag 2023)
- 13 ..... is/are located at the center of our solar system.  
 (a) moon and Sun (b) moon and Earth (c) Sun only (d) Earth only  
 (Cairo 2023)
- 14 The Sun is ..... sized star.  
 (a) small (b) medium (c) large (d) giant  
 (Menofia 2023)
- 15 Most of heat and light energy of the Sun are produced due to the reaction between .....  
 (a) hydrogen rocks (b) hydrogen and helium (c) helium and sand (d) rock and sand  
 (Karfr El-Sh2023)
- 16 Constellations appear..... in the sky during the year.  
 (a) at different positions (b) at the same position (c) in winter only (d) in summer only  
 (Qalyoubia 2023)
- 17 ..... are celestial bodies that make their own light.  
 (a) Moons - planets (b) Sun - stars (c) Sun - planets (d) Earth - Sun  
 (Sharkia 2023)
- 18 Solar system includes ..... at its center and eight planets around it.  
 (a) the moon (b) the Sun (c) Earth (d) Jupiter  
 (Alex. 2023)
- 19 At noon the sun forms ..... shadow of objects.  
 (a) longest (b) shortest (c) medium (d) changes  
 (Alex. 2023)





- 20 Day and night phenomenon occurs due to the rotation of Earth around  
 (a) the Sun (b) its axis (c) the moon (d) solar system  
 (Alex. 2023)
- 21 Revolution of moon around Earth causes .....  
 (a) constellation (b) rotation (c) moon phases (d) planets gravity  
 (Cairo 2023)
- 22 The shortest shadow of an object happens .....  
 (a) in morning (b) in afternoon (c) at noon (d) at night  
 (Cairo 2023)
- 23 The number of stars in the solar system is .....  
 (a) one (b) eight (c) nine (d) two  
 (Giza 2023)
- 24 ..... are celestial bodies that revolve around the Sun in fixed paths.  
 (a) Stars and moon (b) eight planets (c) Sun and Earth (d) Sun and Jupiter  
 (Alex. 2023)
- 25 We see the moon shining in the sky, because it.....  
 (a) absorbs sunlight (b) produces light (c) lets light pass (d) reflects sunlight  
 (Giza 2023)
- 26 The Sun is a star because it.....  
 (a) reflects light (b) absorbs light. (c) gives off light (d) allows light pass  
 (Cairo 2023)
- 27 Heat and light energies of the Sun result from.....  
 (a) explosion of the extremely hot gases inside the Sun.  
 (b) the apparent of the Sun motion daily.  
 (c) revolution of Earth in an elliptical orbit around the Sun.  
 (d) revolution of the moon around Earth in front of the Sun. (school book)
- 28 Stars' illumination and shining in the sky is considered an evidence that.....  
 (a) they are composed of extremely hot gases.  
 (b) they are under the effect of Sun gravity.  
 (c) they belong to our solar system.  
 (d) they are from the followers of the Sun. (school book)





- 29 The Sequence of day and night is due to .....
- Revolution of the moon around the Earth.
  - Revolution of the Earth around the sun
  - Rotation of the moon on its axis.
  - Rotation of the Earth on its axis** (school book)
- 30 If you travel from your country to another, the Sun will.....
- rise in the west and set in the east.
  - rise in the south and set in the north.
  - rise in the east and set in the west.** (Sharkia 2023)
  - rise in the north and set in the south.
- 31 One of the results of the revolution of Earth in elliptical orbit around the Sun and the inclination of its axis is.....
- differences in sunrise time and the sunset time, day after another.**
  - differences in sunrise time, day after another.
  - differences in sunset time, day after another.
  - stability of sunrise time and sunset time, throughout the year. school book
- 32 Rotation of Earth on its axis from west to east leads to the appearance of.....
- the moon and stars as if they rise and set.**
  - sun as if it is still without movement.
  - different moon phases.
  - Earth as if it is still without movement. (school book )
- 33 Formation of shadows of objects happens due to .....
- revolution of Earth around the Sun.
  - revolution of Earth around the moon.
  - appearance of stars as they move in the sky.
  - appearance of the sun as it moves in the sky.** (Assiut 2023)
- 34 Lengths and angles of shadows of objects are affected by.....
- the change in the position of the Sun in the sky.**
  - the distance between Earth and the Sun.
  - the revolution of Earth around the sun.
  - the revolution of the moon around Earth. (Cairo2023)





- 35 The reason of seeing the apparent movement of the stars at night, although they are not changing their locations.....
- the rotation of the moon on its axis.
  - the apparent motion of the Sun every day.
  - rotation of Earth on its axis in front of the Sun.
  - revolution of Earth in an elliptical orbit around Sun.
- 36 The moon seems to be lighted in the sky due to.....
- reflection of Earth's light on the moon's surface.
  - reflection of stars light on the moon's surface.
  - reflection of Sunlight on the moon's surface
  - self-lighting of the moon at night.
- (school book )
- 37 The idea of sundial depends on .....
- formation of shadows.
  - rotation of object around its axis.
  - the motion of the moon.
  - falling of objects under the effect of gravity.
- (school book )
- 38 When the moon is in the full moon phase, this indicates that.....
- half of the moon's face is illuminated.
  - more than half of the moon's face is illuminated.
  - the moon's face if completely darkened.
  - the moon's face is illuminated with sunlight.
- (school book )
- 39 The appearance of the full moon in the sky shows that the face of the moon facing Earth is.....
- fully illuminated with sunlight.
  - half illuminated with sunlight.
  - three quarters of it illuminated with sunlight.
  - a quarter of it illuminated with sunlight.
- (school book )
- 40 When the moon is in the new moon phase, this means that it is in the.....
- start of the lunar month.
  - first quarter
  - second quarter
  - end of its monthly cycle.
- (school book )
- 41 The Earth's axis is an imaginary line that passes through.....
- the two poles of Earth
  - the center of the moon





- 42 c the center of the solar system d the center of the Sun.

(Alex. 2023)

- 43 At midday, the Sun is perpendicular to you. ....

- a from your right side b from your left side

- 44 c above your head d in front of you

(Qalyoubia 2023)

- 45 Waste water engineers work in Egypt in.....

- a Ras Mohammed protector b Lake Bardwell c Bahr Al Baqar plant d electrical power plant

( school book )

Prevent developing of Ras Mohamed Protectorate is considered as an example of .....

- 47 a preservation b pollution c sustainability d consumption

(Cairo 2023)

- 48 All the following materials can be used to filter wastewater in simple water filter, except .....

- a cotton b wood c charcoal d sand

- 49 .....is considered as a type of friction force.

- a Magnetism b gravity c electric d air resistance

- 50 Earth's gravity pulls down things toward Earth.....

- a in inclined angle b perpendicularly c horizontally forward d vertically upwards

- 51 Object moves under the effect of..... forces.

- a pull - push b pull - drag c revolving and push d pull and attraction

- 52 ..... is a factor that acts against gravity force.

- a Magnetism b mass of object c air resistance d Object shape

- 53 Which of the following is found between porous of rocks below Earth surface?

- a Ice b Groundwater c Oceans d Water vapour

- 54 Rivers and streams contain .....water, while ponds contain .....water.

- a salt – fresh b fresh – salt c running – still d still – running





- 55 Among animals that can be found in ponds are ..... and .....  
 (a) lions – salamanders (b) dogs – frogs (c) frogs – salamanders (d) foxes – bears
- 56 Among the sources of water which human can use for drinking .....  
 (a) seas (b) oceans (c) saltwater lakes (d) rivers
- 57 Humans can get their needs of .....from rivers, streams and groundwater.  
 (a) oxygen gas (b) carbon dioxide gas (c) salt water (d) fresh water
- 58 About 10% of the world's animal species live in freshwater bodies like .....  
 (a) rivers and seas (b) streams and seas (c) oceans and seas (d) rivers and streams
- 59 Magnetism is a kind of..... force.  
 (a) attraction only (b) repulsion only (c) visible (d) invisible
- 60 Earth attracts objects towards.....  
 (a) its center (b) the sky (c) the moon (d) the sun
- 61 As the mass of the object increases, its ..... increases.  
 (a) movement (b) force (c) gravity (d) illumination
- 62 The gravitational force of an object ..... as its mass increase.  
 (a) equal zero (b) increase (c) decrease (d) doesn't change
- 63 Water filters are used to remove ..... materials from polluted water.  
 (a) harmful (b) solar system (c) day and night (d) electricity
- 64 ..... of resources, requires managing its usage methods.  
 (a) Depletion (b) Sustainability (c) Renewability (d) Scarcity
- 65 Pollution is one of the problems to achieve (affect) ..... of resources.  
 (a) preservation (b) sustainability (c) restoration (d) renewability
- 66 All the following are from sources of water on the Earth, except .....  
 (a) groundwater (b) ponds (c) glaciers (d) molten rocks
- 67 The amount if salt water on the Earth is ..... the amount of fresh water.  
 (a) larger than (b) smaller than (c) equal to (d) half
- 68 ..... are formed when water collects in low-lying areas.  
 (a) Seas (b) Oceans (c) Lakes (d) Rivers





- 69 The force of ..... keeps the planets on their paths around the sun  
 (a) friction (b) gravity (c) air resistance (d) electricity
- 70 The acting force on the moon to make it revolves around the earth is.....  
 (a) Earth's gravity (b) sun's gravity (c) moon's gravity (d) Mars's gravity
- 71 Mountains and valleys are parts of .....  
 (a) geosphere (b) atmosphere (c) biosphere (d) hydrosphere
- 72 96.5% of Earth's water is .....  
 (a) salt water (b) boiling water (c) fresh water (d) frozen water
- 73 A boy on slide moves down toward due to the effect off .....  
 (a) friction (b) gravity (c) temperature of air (d) boy's Hight
- 74 Gravity keeps the moon revolve in orbit around.....  
 (a) The Sun (b) the earth (c) Itself (d) another moon
- 75 ..... process is used to get filtered water from polluted water.  
 (a) Recycling (b) Sustainability (c) Preservation (d) Conservation
- 76 Rainwater is a part of .....  
 (a) biosphere (b) hydrosphere (c) geosphere (d) atmosphere
- 77 Mountains and valleys are parts of .....  
 (a) geosphere (b) atmosphere (c) biosphere (d) hydrosphere
- 78 96.5% of Earth's water is .....  
 (a) salt water (b) boiling water (c) fresh water (d) frozen water
- 79 A person can exert a weak force to move.....  
 (a) a big truck (b) a real car (c) a very big rock (d) a toy car
- 80 The pulling force of a magnet attracts materials made of  
 (a) Wood (b) plastic (c) iron (d) rocks
- 81 Magnet attracting paper clips is evidence that magnet.....  
 (a) needs force (b) has a force (c) loses force (d) gains force
- 82 The area of land where all the water flows in one direction to a common location as ocean is called .....  
 (a) tributary (b) estuary (c) wetland (d) watershed





- 83 ..... are parts of geosphere.  
 (a) Plants (b) Rocks (c) Gases (d) Water bodies
- 84 An area of land where water flows in a specific path from a higher altitude to a lower altitude area is .....  
 (a) river (b) sea (c) lake (d) ocean
- 85 It results from atmosphere and biosphere interaction: .....  
 (a) availability of oxygen gas (b) soil fertility (c) increased pollution (d) photosynthesis
- 86 An example of saltwater ecosystem is .....  
 (a) Nile river (b) Lake Assal (c) glacier (d) Lake Nasser
- 87 Most of fresh water on Earth is found in the form of .....  
 (a) groundwater (b) rivers (c) glacier (d) streams
- 88 Two magnets move away from each other when there is ..... force between them.  
 (a) Gravitational (b) repulsion (c) contact (d) pulling
- 89 A force that is created between two attached surfaces leading to slow movement is called..... force.  
 (a) pushing (b) dragging (c) friction (d) pulling
- 90 The force that causes skydivers to moves down is called .....  
 (a) friction (b) gravity (c) air resistance (d) electricity
- 91 Gravity depends on the ..... of a body  
 (a) Speed (b) mass (c) length (d) age
- 92 A group of plants and animals which live together in a large area characterized by its climate is called.....  
 (a) atmosphere (b) hydrosphere (c) biome (d) lithosphere
- 93 A table stands on the ground needs.....to move.  
 (a) Sunlight (b) mass (c) force (d) air
- 94 The force of.....keeps the planets on their paths around the Sun.  
 (a) air resistance (b) friction (c) gravity (d) electricity
- 95 The acting force on the moon to make it revolves around the Earth is.....  
 (a) Earth's gravity (b) Sun's gravity (c) moon's gravity (d) Mars's gravity
- 96 If the distance between the moon and Earth is doubled, the force of gravity.....between them.  
 (a) increases (b) vanishes (c) decreases (d) doesn't change





- 97 A force that is created between two attached surfaces leading to slow movement is called ..... force.  
 (a) Pushing (b) dragging (c) friction (d) pulling
- 98 In the late afternoon, the sun appears in the..... direction in the sky.  
 (a) east (b) west (c) north (d) south
- 99 The Earth rotates .....on its axis.  
 (a) Clockwise (b) Counter clockwise (c) from north to south (d) From south to north

Question 02

put ( true ) or ( false )

- 1 The rotation of Earth around the Sun causes day and night phenomenon. ✗  
 (Cairo 2023)
- 2 The Earth takes ( 12 ) hours to make a complete cycle on its axis. ✗  
 ( Qalyoubia 2023)
- 3 Earth revolves around the Sun once every 24 hours ✗  
 ( Kafr El-Sheikh 2023)
- 4 Earth revolves around the Sun once every one day. ✗  
 (Gharbia 2023)
- 5 The Sun doesn't revolve around Earth ✓  
 (Dakahlia 2023)
- 6 Jupiter is the fastest planet that rotates on its axis in the solar system. ✓  
 ( Aswan 2023)
- 7 Our solar system contains eight planets. ✓  
 (Giza 2023)
- 8 Constellations have similar shapes in the sky ✗  
 (Alex. 2023)
- 9 The constellations help us to determine the main directions. ✓  
 (Cairo 2023)
- 10 Length of shadows of different objects don't change during day. ✗  
 (Cairo 2023)
- 11 Stars are solid objects made up of rocks. ✗  
 (Cairo 2023)
- 12 The Sun is the biggest star in the universe ✗  
 (Cairo 2023)





- 13 All people in different countries see the star in the sky at the same time. (Giza 2023) ✗
- 14 The stars are far away from Earth. (Giza 2023) ✓
- 15 We can feel the movement of Earth easily. (Giza 2023) ✗
- 16 Constellations appear in the sky are different in winter than in summer (Menofia 2023) ✓
- 17 The moon reflects sunlight that falls on it. (Menofia 2023) ✓
- 18 Constellations have similar shapes in the sky. (Luxor 2023) ✗
- 19 The moon seems shiny because it absorbs sunlight (Qena 2023) ✗
- 20 The Sun is necessary for continuity of life on Earth (Cairo 2023) ✓
- 21 The scientist Copernicus proved that the Earth is the center of the solar system. (Fayoum 2023) ✗
- 22 The Sun is the biggest star in the universe. (Cairo 2023) ✗
- 23 Moon and stars make their own light. (Alex. 2023) ✗
- 24 The sun appears in the same place in the sky all the day. (El bajour 2023) ✗
- 25 The length of day and night are always equal during the whole year. (El bajour 2023) ✗
- 26 Stars are made up of hot gases (El bajour 2023) ✓
- 27 Stars are superhot gaseous sphere most of them are helium and hydrogen (el-Behaira 2023) ✓
- 28 Galileo binoculars help scientists to see distant objects in space with more details. (el-Behaira 2023) ✓
- 29 Among the sources of fresh water are rains ✓





- 30 The type of water in rivers is fresh water only. ✓
- 31 We must conserve fresh water, because it is limited on Earth. ✓
- 32 High quality of fresh water leads to the death of marine organisms live in it. ✗
- 33 The two main risks that threaten fresh water on Earth are scarcity and conservation of fresh water. ✗
- 34 Building factories is from human strategies to control and conserve fresh water. ✗
- 35 The gravity of moon affects the ocean tides. ✓
- 36 Earth pulls object toward its moon. ✗
- 37 Living organisms are parts of geosphere. ✗
- 38 Gases which surround the Earth represent the atmosphere. ✓
- 39 Some ponds and lakes may dry up in winter months ✗
- 40 Rivers and streams are running freshwater bodies. ✓
- 41 The moon stays in fixed orbit around Earth due to the gravity between them. ✓
- 42 Gravity of Earth pushes objects towards its center. ✗
- 43 All objects are pulled toward the ground due to the effect of gravity. ✓
- 44 Magnetism is a type of friction force ✗
- 45 Gravity pulls objects toward the center of Earth. ✓
- 46 Earth pulls living organisms only toward its center. ✗
- 47 Air resistance slows down the speed of parachutes. ✓
- 48 Air resistance is a factor that speeds up the falling objects toward the earth. ✗
- 49 The planets revolve around the Sun by the effect of gravitational pushing force. ✗
- 50 Parachute helps in increasing the velocity of object falling to the ground. ✗
- 51 The Earth's gravity keeps all planets in their orbits. ✗
- 52 The force of magnet is always attraction force only. ✗
- 53 As the mass of the object increases, its gravity increases ✓
- 54 Magnet has the force of attracting metals such as silver and gold. ✗
- 55 The orbit of each planet has an ellipse shape. ✓
- 56 The scientist Nicolaus Copernicus stated that Earth revolves around the Sun. ✓





- |    |   |   |
|----|---|---|
| 57 | Earth rotates around its axis at a speed nearly equals 107000 km/hour   | ✗ |
| 58 | The planets revolve around the Sun in a circular orbit.   | ✗ |
| 59 | Cotton can be used as a filter to remove waste from water   | ✓ |
| 60 | Water is important for growing of living organisms.   | ✓ |
| 61 | Weathering of rocks as a result of the effect of rains is an example of an interaction between hydrosphere and biosphere. | ✗ |
| 62 | Oceans, lakes and rivers are included in the hydrosphere  | ✓ |
| 63 | Fresh water forms about 3.5% of water on Earth.   | ✓ |
| 64 | Some human activities are responsible for water pollution.  | ✓ |
| 65 | Half of the moon is illuminated at the first quarter phase of the moon.   | ✓ |
| 66 | When we visit planetarium, we will see images about living organisms  | ✗ |
| 67 | Revolution is the movement of an object around another object   | ✓ |

### Question 03

### Complete the following sentences

- 1 In early morning, the Sun appears in east, while at noon it appears in center of the sky.  
(Cairo 2023)
- 2 Seasons phenomenon occurs due to the revolution of Earth around the sun.  
(Giza2023)
- 3 The sun located in the center of the solar system.  
(Cairo 2023)
- 4 At noon the Sun forms shorter shadow of an object.  
(Luxor 2023)
- 5 Stars seem bright because they are made up of hot gases.  
(Cairo 2023)
- 6 Planets and moon can't make their own light.  
(sohag 2023)
- 7 Stars are made up of hot gases.  
(sohag 2023)
- 8 The moon seems bright as it reflects sunlight.  
(Luxor 2023)
- 9 The Sun produces thermal energy that warms the Earth.  
(Alex. 2023)





- 10 The wide space that contains celestial object is called **universe** ( el-Bhaira 2023)
- 11 A group of stars, planets and gases held together by gravity is called **Galaxy** ( Karfr El-Sheikh 2023)
- 12 The sun is a **star** that can give out light. (Alex. 2023)
- 13 The Sun appears in the **east** direction during the early morning. Alex. 2023)
- 14 The Earth rotates around its axis once every **24** hours. ( Giza2023)
- 15 In the solar system all planets revolves in fixed paths called **orbit**
- 16 We must take a quick shower to conserve **freshwater**.
- 17 The Earth's system that includes all living organisms is called **biosphere**
- 18 A rat that digs a burrow in the soil is an example of the interaction between **biosphere** and geosphere.
- 19 Irrigation of plants is an example of the interaction between two Earth's systems which are **hydrosphere** and **biosphere**
- 20 The amount of fresh water on Earth is **less** than the amount of salt water.
- 21 Kelp, starfish and mosses fish live in **oceans** which are considered the largest saltwater ecosystems on the Earth.
- 22 When the rate of rainfall decreases, the level of water in rivers will **decrease** causing **drought**.
- 23 Clothes can be made from **animal** products or **plant** products.
- 24 Cotton, **charcoal** and **sand** can be used in making a simple water filter.
- 25 Wastewater engineers can test the quality of **water** by checking for the amount of **pollutants** in water.
- 26 Water treatment plants recycle the **wastewater** by removing harmful materials from it to reuse it again.
- 27 When a river meets a sea, an **estuary** is formed.
- 28 When the water is stored in the cracks and spaces of underground rocks, **groundwater** is formed.
- 29 In high Dam, water is used to generate **electricity**
- 30 **Fresh** water is found in rivers, most of lakes and streams.
- 31 We must take a quick shower to conserve **fresh water**.
- 32 Building a **dam** cross a tributary can change the amount of water in it.
- 33 Water treatment plants recycle the **waste water** by removing harmful materials from it to reuse the water again.





- 34 To conserve water, we can **decrease** the time of washing our hands.
- 35 If we use fossil fuels wisely without negatively affecting their amount in the future, this is called **sustainability**
- 36 The moon moves around **earth** due to gravity.
- 37 The gravity of the moon affects the phenomena of ocean **tide**
- 38 When a boy moves down a slide, this is due to the force of **gravity**
- 39 Force may push or **pull** the object to make it move.
- 40 Magnetism is a force that attracts **metal** objects.
- 41 If the mass of the moon increases than its real mass, its gravitational attraction will **increase**
- 42 **Force** is a pull or push that is applied to an object.
- 43 Gravity pulls objects toward the **center** of Earth.
- 44 The gravity of Earth is **bigger** than that of the moon because Earth has a greater mass than the moon.
- 45 Magnet can attract some objects by a force called **magnetism**
- 46 The force between two magnets is called **magnetism**
- 47 **The earth** revolves around the sun in fixed orbit.
- 48 The direction of Earth's gravity is always toward **the center** of Earth.
- 49 The force of gravity is always **pulling** force, and it changes the **direction** of movement.
- 50 **friction** force opposes the motion of the body and slows down its speed.
- 51 Air resistance is a type of **friction** force.
- 52 The force that keeps all planets around the Sun is called **gravitational force**
- 53 Earth revolves around the Sun in a fixed path that has **oval (ellipse)** shape
- 54 Any object has **gravity** depending on its mass.
- 55 **Friction** is a force generated between two touching surfaces.
- 56 When the Earth is between the moon and the sun ,the moon appears in the **Full moon** phase
- 57 The axis of Earth planet is **vertical**
- 58 Every night, new stars appear from **East**
- 59 The Earth is surrounded by **atmosphere** that allows some light waves to pass through it and blocks others





Question 04

write scientific term for each of the following

- ① The spinning of Earth on its axis. [Cairo 2023] **Rotation**
- ② An imaginary line passing through the Earth from the north pole to the south pole. ( Aswan 2023) **Earth's axis**
- ③ The group of stars forms a pattern in the sky. (Luxor 2023) **constellation**
- ④ It is a group of stars, planets and gases held together by gravity. (Alex. 2023) **Galaxy**
- ⑤ Dark celestial object revolves around Earth and reflects the sun light. (Alex. 2023) **The Moon**
- ⑥ A medium size star that is the center of the solar system. (Alex. 2023) **The Sun**
- ⑦ They are giant spheres of superhot gases most of them are hydrogen and helium. **The stars**
- ⑧ A special building with dome ceiling and is used to see images of celestial bodies. **Planetarium**
- ⑨ The large water body that is surrounded by land. **Lake**
- ⑩ The water bodies that surround the continents. **Oceans**
- ⑪ It is an area of land where all the water flows in one direction to a common location such as an ocean, a sea or other large water body. **watershed**
- ⑫ The action of control reaching of humans to the natural resources or using them. **preservation**
- ⑬ It is the water that has already been used in homes and different industries. **Wastewater**
- ⑭ They are small water bodies such as small creeks or streams that flows into bigger rivers **Tributaries**
- ⑮ A force that pulls object down toward the Earth's center **Gravity**
- ⑯ The effect that pulls or pushes an object to make it moves. **Force**
- ⑰ An invisible force that attracts iron paper clips to the magnet. **Magnetism**





- |    |   |                       |
|----|---|-----------------------|
| 18 | The force that is found between two magnets or between the magnet and an object.                                      | Magnetism             |
| 19 | The force that opposes the motion of a body across a solid, a liquid or gas.  | Friction force        |
| 20 | A type of pollution that occurs as a result of throwing waste in rivers and seas.                                     | water pollution       |
| 21 | The system that includes humans, animals and plants of Earth.   | Biosphere             |
| 22 | A large area of the world that has similar soil, climate, plants and animals.   | Biome                 |
| 23 | The area along the coast that disappears at the high tide and appears at the low tide.                                | Intertidal zone       |
| 24 | A force between two objects in contact with each other's, and it affects in the opposite direction of movement force. | Friction force        |
| 25 | A type of friction force that opposes the movement of an object as it passes through air.                             | Air resistance        |
| 26 | The law which states that the force of gravity is constant and acts on all objects in the same way.                   | The law of motion     |
| 27 | A scientist proved that the Sun is the center of our solar system.  | Nicolas copernicus    |
| 28 | A phenomenon that happens due to the increase of the level of water in rivers and streams.                            | flooding              |
| 29 | A phenomenon that happens due to the decrease of the level of water in rivers and streams                             | drought               |
| 30 | A phenomenon takes place in oceans and seas due to gravity of moon.   | Tides                 |
| 31 | The scientists who are responsible for making amazing realistic show in planetarium                                   | Planetarium directors |

### Question 05

### Cross out the odd word

- |   |   |                   |
|---|---|-------------------|
| 1 | Friction — The Sun — Gravity — Air resistance.                                  | the sun           |
| 2 | Nickel — Cobalt — wood — iron.  | wood              |
| 3 | Moon - Galileo binocular - International Space Station - Hubble Space Telescope | Moon              |
| 4 | Full moon _ first crescent _ Galileo binocular_ new moon                        | Galileo binocular |





Question 06

give reason

- ① Occurrence of day and night. (Suez 2023)  
**Due to the rotation of the earth on its axis.**
- ② The regular pattern of day and night. (Alex. 2023)  
**Due to the rotation of the earth on its axis.**
- ③ Occurrence of seasons. (Giza 2023)  
**Due to the revolution of the earth around the sun.**
- ④ Although Earth rotates on its axis, we don't feel its movement. (Luxor 2023)  
**Because we are moving with the same speed of Earth.**
- ⑤ The length of the shadow of an object changes throughout the day. (Cairo 2023)  
**due to the change in the position of the sun in the sky.**
- ⑥ The moon appears bright in the sky at night. (Menofia 2023)  
**Because it reflects the sunlight.**
- ⑦ Earth and the moon are not considered stars.  
**Because they don't give off their on light.**
- ⑧ The Sun looks much larger to us than other stars. (Giza 2023)  
**Because the sun is the closest star to earth.**
- ⑨ Water is important for all plants on Earth.  
**Because all plants need water to grow and some of them live in water.**
- ⑩ Hiding of worms inside the soil is an example of an interaction between two Earth's spheres.  
**Because worms belong to biosphere, while soil belongs to geosphere.**
- ⑪ Farms near tributaries may cause water pollution  
**Due to using of chemical fertilizers that cause water pollution**
- ⑫ We should turn off water during washing dishes.  
**To conserve fresh water**
- ⑬ Countries prevent using or developing natural resource in some protected areas of land.  
**To preserve natural resources.**





- 14 Cutting down too many trees of forests leads to soil erosion.  
Because it leads to deforestation so water and wind can carry away soil causing soil erosion
- 15 Scientists recycle fresh waste water to get filtered water again.  
Because fresh water is limited natural resource and its important for all living organisms to survive
- 16 We must conserve fresh water.  
Because there is a limited amount of fresh water on Earth
- 17 You should turn off water tap during brushing your teeth.  
To conserve fresh water
- 18 Groundwater is called by this name.  
Because it is stored in the cracks and spaces of underground rocks
- 19 The quality of fresh water affects the life of living organisms live in it.  
Because poor quality of fresh water leads to death of thousands of living organisms and extinction of some species
- 20 The force of gravity has an important role in the solar system.  
Because gravity between the sun and the and objects in the solar system keeps the planets revolve in fixed orbits around the sun
- 21 The moon rotates around the Earth in a fixed orbit.  
Due to the gravitational force of the earth.
- 22 After the skydivers jump from a plane, they always move toward the ground.  
Due to the earth gravity which pulls them toward the ground.
- 23 The moon is attached to the earth.  
Due to the gravitational attraction between the earth and the moon.
- 24 Paper clips are pulled towards the magnet  
Due to the force of magnetism.
- 25 Gravity of the earth is greater than the gravity of the moon.  
Because the mass of the earth is greater than the mass of the moon.
- 26 Gravitational force depends on distance  
Because when the distance between two objects increases, the gravitational force decreases and vice versa





- 27 Planets revolve around the Sun in fixed orbits  
Due to the great gravitational pulling force between the sun and the planets.
- 28 You always land on the ground when you jump up.  
Due to the effect of gravity that's always pull the objects toward it
- 29 Air resistance affects object movement which falls from a height.  
Because it slows down the movement of object during its falling
- 30 Some iron nails are attracted to a magnet.  
Because the magnetism force pulls them toward the magnet
- 31 The skydivers land safely when he open his parachute.  
The parachute slows down his speed on landing due to air resistance.

## Question 07

## what happens

- 1 Earth doesn't rotate on its axis. (Aswan 2023)  
Phenomenon of day and night will not happen.
- 2 Half of Earth faces the Sun. (Cairo 2023)  
This half has day.
- 3 The distance between the earth and the moon increases twice.  
The gravitational attraction between them would become smaller.
- 4 The mass of moon becomes twice its real mass.  
The gravitational force between earth and the moon increases so the moon comes closer to earth and it might crash into the earth.
- 5 The mass of the moon decreases to half.  
The moon would have less gravity.
- 6 The gravity of the Sun if its mass decreases than it is now.  
The gravity of the sun will decrease.
- 7 Absence of gravity between Sun and the planets of solar system.  
The planets will leave their orbits and float off into the space.
- 8 You throw a basketball into the air.  
The ball will go up into the air and then fall down back to the ground due to the gravity force.





- 9 A magnet is placed near to some paper clips  
**The magnet will attack the paper clip due to the magnetism force.**
- 10 The gravity of the earth is a repulsion force not an attraction force.  
**All objects on its surface will move upward away from earth's surface**
- 11 A person uses the brake of a moving bicycle.  
**The break will produce friction force which slows the movement of the bicycle**
- 12 To the speed of skydiver if he opens his parachute during landing.  
**the speed of the skydiver decreases gradually due to air resistance**
- 13 If a metal ball and a feather are fallen down from a tower.  
**The metal ball will reach the ground first.**
- 14 The river water meets the sea water.  
**An estuary is formed**
- 15 People don't conserve fresh water.  
**The amount of fresh water on Earth will decrease**
- 16 Water is collected in a low-laying area.  
**A lake is formed**
- 17 The quality of fresh water affects the life of living organisms live in it.  
**It leads to death of living organisms and extinction of some species live in fresh water**
- 18 You mix clear water with small amount of mud.  
**It will become dirty water**
- 19 Fish are eaten more than they are replaced in the ocean.  
**They become rare and fishing will decrease**
- 20 The rate of rain fall increases on a river.  
**The level of water on river will increase causing floods.**
- 21 Polluted water is passed through a water filter.  
**Harmful waste materials will be removed from it and becomes filtered water**
- 22 A trash dump is established near a tributary that is connected with river  
**The litter will be blown into the water of tributary then into the river causing water pollution.**

انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق





**Choose the correct answer from the following: -**

- 1 .The imaginary line that passes from the north pole to the south pole through Earth's center is called.....  
a. the day.      b. the axis.      c. the night.      d. the pole.
- 2.The orbiting of an object around another object is called  
a. revolution.      b. spinning.      c. rotation.      d. speed.
- 3 .In late afternoon, the Sun appears in the.....direction in the sky.  
a. east      b. west      c. north      d. south
4. A force that is created between two attached surfaces leading to slow movement is called force...  
a. pushing      b. dragging      c. friction      d. pulling
- 5... .locates at the center of our solar system.  
a. The moon      b. The Sun      c. the Earth      d. Moon and Sun
6. Human can use water in all the following purposes, except  
a. fishing.      b. transportation.      c. generating electricity.      d. weathering of rocks.
7. All the following materials can be used to filter wastewater in simple water filter, except  
a. cotton.      b. wood.      c. charcoal.      d. sand.
- 8..... is formed when water is collected in a low-laying area.  
a. Lake      b. Wetland      c. Estuary      d. River
- 9 .Two magnets move away from each other when there is.....force between them.  
a. gravitational      b. repulsion      C. contact      d. pulling
10. Kelp that lives in oceans and seas, is an example of the interaction between ..... and .....  
a. geosphere-biosphere.      b. geosphere-hydrosphere.  
C. biosphere-hydrosphere.      d. atmosphere-hydrosphere.



11.Erosion of rocks by water is an interaction between .....and.....

a- atmosphere\_biosphere      b- geosphere\_hydrosphere      c- atmosphere\_geosphere

12 \_All the following freshwater except.....

a\_river      b\_gulfs      c\_rainwater

13 \_The area of land where all the water flow in one direction to a common location is called....

a\_watershed      b\_wetland      c\_tributary

14 \_Prevent developing of Ras Mohammed protectorate is considered as an example of...

a\_sustainability      b\_pollution      c\_preservation

15- water lilies can live in....

a\_ponds      b\_seas      c\_oceans

16 \_level of water in river may increasing causing flooding, when there is more.....

a\_rainfall      b\_wind      c\_sunlight

17 \_The amount of salt water on the earth is.....the amount of fresh water

a\_equal to      b\_half      c\_larger than

18- .....is considered as a type of friction force.

a\_Magnetism      b\_Gravity      c\_air resistance

19 \_Gravity is .....force that holds all objects in their places

a\_visible pulling      b\_invisible pushing      c\_invisible pulling

20 \_The force of..... keep the planets on their paths around the sun

a\_air resistance      b\_gravity      c\_friction

21 \_Friction force .....the movement of object

a\_slow down      b\_increase      c\_speed ups



**Write scientific term:**

1. It is the system that includes rocks, soil, sand, ... etc.	
2. It is the system that surrounds the Earth and it is composed of mixture of some gases such as nitrogen, oxygen, carbon dioxide, water vapor, etc.	
3. It is the system that includes all living organisms such as humans, plants, animals, microorganisms, etc.	
4. It is the system that includes all water on the Earth (fresh water and salt water).	
5. It means the breakdown of rocks into smaller particles due to the effect of rain, wind, temperature, ... etc.	
6. It means the transportation of small particles of rocks to another place by water or wind.	
7. It is a large area of the world that has similar soil, climate, plants and animals (wildlife).	
8. It is an area of land where water from different sources flows in one direction towards a common location such as an ocean, a sea or other large water body.	
9. They are small water bodies such as small creeks or streams that flow into bigger rivers.	
10. It is the place where a river starts.	
11. It is the place where a river ends.	
12. It means restricting access (control reaching) of humans to the natural resources or using them.	
13. It means using natural resources in a way that does not negatively affect the future supply of these resources.	
14. It is the force of attraction between objects that have mass.	



15.It is a pull or a push that is applied to an object.	
16.It is a force that opposes the motion of a body across a solid surface or through a gas or liquid.	
17.It is a force that opposes the movement of an object as it passes through air.	
18.The force of gravity is constant and acts on all objects in the same way.	
19.It is the force of attraction or repulsion between two magnets or between a magnet and an object.	
20.It is an imaginary line passing through the North pole and South pole of Earth.	
21.It is the spinning of an object around an axis.	
22.It is the orbiting of an object around another object.	
23.It is a series of events that is repeated in the same order.	
24.The Sun and eight planets revolving around it.	
25.It is a group of stars that forms a pattern or looks like a certain shape in the sky.	
26.They are giant spheres of superhot gases most of them are hydrogen and helium.	
27.It is a group of stars, planets and gases held together by gravity.	
28.It is the wide space that contains celestial objects as stars, galaxies, comets, meteors and satellites.	
29.It is a protective layer around the Earth that allows some light waves to pass and blocks others.	
30.It is a place where we can see images of stars, planets, constellations and other celestial bodies.	

**Complete the following sentences:**

1. In High Dam, water is used to generate.....
2. We must take a quick shower to conserve .....



3. When the rate of rainfall decreases, the level of water in rivers will ..... causing .....
4. The land that is partially covered with water is called.....
5. When a river meets a sea an ..... is formed
6. The type of water that is found in rivers, most of lakes and streams is a .....  
Water
7. To conserve water, we can.....time of washing our hands.
8. Building..... across a tributary can change the amount of water in it.
9. The extinction of some species that live in fresh water is due to the poor.....of fresh water.
- 10.If we use fossil fuels wisely without negatively affecting their amount in the future, this is called.....
- 11-Water is responsible for .....process and .....process of rocks 12-When a river meets a sea .....is formed.
- 13-A rat that digs a burrow in the soil is an example of interaction between two spheres which are .....and .....
- 14-Most lakes have.....water ,while some other lakes have .....water
- 15-Abyssal zone in the ocean is a dark area as ..... cannot reach it.
- 16-Rivers contain .....water,while Oceans contain .....water
- 17-when the rate of rainfall increases,the level of water will .....causing .....
- 18- Groundwater is replaced by.....
- 19-Cotton ,.....and.....can be used in making a simple water filter
- 20-.....are formed when water collects in low-lying areas

**Put (true) or false :**

1. A river always flows from an area of lower place to an area with higher place. ( )
2. All animals and plants can live in aquatic habitats . ( )
3. Some animals live in streams such as catfish and salmon. ( )
4. Lake Bardawil is an example of saltwater lakes in Egypt. ( )



5. Some ponds and lakes may dry up in winter months. ( )
6. Dams can be used to filter polluted water to be used again. ( )
7. You can conserve water by leaving the tap open during brushing your teeth. ( )
8. Upstream is the place where a river starts. ( )
9. The type of water in oceans is salt water only. ( )
10. Soil pollution causes the death of plants and animals. ( )
11. Air resistance is a type of friction force. ( )
12. Friction force opposes the movement of an object. ( )
13. The direction and mass of an object are changed due to gravity. ( )
14. When using the bicycle brake, the bicycle stops due to the friction force between the brake and the tires. ( )
15. Gravity pulls objects toward the center of earth. ( )
16. When we visit planetarium, we will see images about living organisms. ( )
17. Half of the moon is illuminated at the first quarter phase of the moon. ( )
18. The regular pattern of day and night occurs due to the rotation of Earth around the Sun. ( )
19. We can feel the movement of Earth easily. ( )
20. The sun appears in the same place in the sky all the day ( )

**Give reason for :**

- 1) Most of fresh water on earth can't be used for drinking  
.....
- 2) You should turn off tap during brushing your teeth  
.....
- 3) We must conserve fresh water  
.....
- 4) The moon is attracted to the earth  
.....
- 5) The ball changes its direction after we throw it upward  
.....



.....  
6) Gravity of earth is greater than the gravity of of the moon

.....  
7) Some iron nails are attracted to the magnet

.....  
8) Planets revolve around the sun in fixed orbits

.....  
9) Wastewater engineers test the treated water

.....  
10) You always land on the ground when you jump up

.....  
**What happens if.....**

1.the distance between the moon and Earth increase .

.....  
2. the mass of the moon decreases.

.....  
3.there is no gravity on the Earth

.....  
4. if a metal ball and a feather are fallen down.

.....  
5.Earth doesn't rotate on its Axis.

.....  
6. Half of Earth faces the sun.

.....  
7.sunlight falls on the moon surface.



8.the length of the shadow of an object at noon.

.....

9. if there is no air resistance and two objects with different masses are thrown.

.....

10. What happens to the gravity of sun if it is mass decreases?

.....

**Cross out the odd word :**

1-Nickel - Cobalt - wood- Iron.

2- friction - Sun - Gravity - Air Resistance.

3-Earth - Jupiter - Sun- moon.

4-Gravity - wind - full moon phase - Magnetism.

5-Crescent - full moon- Earth - Gibbous.

6-Hydrogen - helium - Nitrogen -Hot gases.

7-Binoculars - Telescope- universe - force.

8-East - west -Gravity- North.

9-Atmasphere- Planets - Sun - Solar System .

10- Galileo - Copernicus - Newton -Albert Einstein.

11- Stars - Galaxy - universe -friction.

12- first Crescent - second Crescent - first gibbous - first quarter.

13- Day and night - Earth -four seasons -water cycle.

14. Day - night - friction - rotation.

15-Speed-mass-distance - gravity.



**Answer the following :**

1- What is the force that makes planets revolve in fixed orbits around the Sun?

.....

2-What are the factors that affect the gravity between two objects?

.....

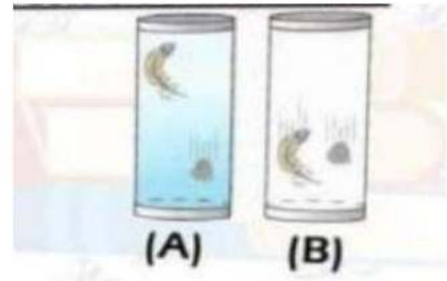
3-What is the name of the force that's opposite the motion?

.....

**Imagine that jar (A) contains air, while jar (B) doesn't contain air.**

A-The two bodies in jar (A) are affected by (gravity only - air resistance and gravity)

B-The two bodies in jar (B) are affected by (gravity only-air resistance and gravity)



**Look at the opposite figure, then answer:**

1-The force of ..... opposes the .....force of Earth and slows down the falling of skydiver.

2-When the skydiver opens his parachute the air resistance increases (      )





**Study the opposite figure then choose the correct answer**

1-.....Is the largest mess

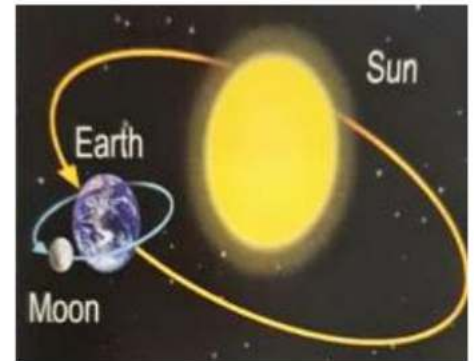
(the moon -the sun -the earth)

2... ..... has the smallest size

(the moon -the sun -the earth)

3..... has the lowest gravity force

(the moon -the sun -the earth)





**Choose the correct answer from the following: -**

- 1 .The imaginary line that passes from the north pole to the south pole through Earth's center is called.....  
a. the day.      **b. the axis.**      c. the night.      d. the pole.
- 2.The orbiting of an object around another object is called  
a. **revolution.**      b. spinning.      c. rotation.      d. speed.
- 3 .In late afternoon, the Sun appears in the.....direction in the sky.  
a. east      **b. west**      c. north      d. south
4. A force that is created between two attached surfaces leading to slow movement is called force...  
a. pushing      b. dragging      c. **friction**      d. pulling
- 5... .locates at the center of our solar system.  
a. The moon      **b. The Sun**      c. the Earth      d. Moon and Sun
6. Human can use water in all the following purposes, except  
a. fishing.      b. transportation.      c. generating electricity.      **d. weathering of rocks.**
7. All the following materials can be used to filter wastewater in simple water filter, except  
a. cotton.      **b. wood.**      c. charcoal.      d. sand.
- 8..... is formed when water is collected in a low-laying area.  
**a. Lake**      b. Wetland      c. Estuary      d. River
- 9 .Two magnets move away from each other when there is.....force between them.  
a. gravitational      **b. repulsion**      C. contact      d. pulling
10. Kelp that lives in oceans and seas, is an example of the interaction between ..... and .....  
a. geosphere-biosphere.      b. geosphere-hydrosphere.  
**C. biosphere-hydrosphere.**      d. atmosphere-hydrosphere.



11.Erosion of rocks by water is an interaction between .....and.....

a- atmosphere\_biosphere    **b- geosphere\_hydrosphere**    c- atmosphere\_geosphere

12 \_All the following freshwater except.....

a\_river    **b\_gulfs**    c\_rainwater

13\_The area of land where all the water flow in one direction to a common location is called....

a\_**watershed**    b\_wetland    c\_tributary

14\_Prevent developing of Ras Mohammed protectorate is considered as an example of...

a\_sustainability    b\_pollution    **c\_preservation**

15- water lilies can live in....

a\_**ponds**    b\_seas    c\_oceans

16\_level of water in river may increasing causing flooding, when there is more.....

a\_**rainfall**    b\_wind    c\_sunlight

17\_The amount of salt water on the earth is.....the amount of fresh water

a\_equal to    b\_half    **c\_larger than**

18- .....is considered as a type of friction force.

a\_Magnetism    b\_Gravity    **c\_air resistance**

19\_Gravity is .....force that holds all objects in their places

a\_visible pulling    b\_invisible pushing    **c\_invisible pulling**

20\_The force of..... keep the planets on their paths around the sun

a\_air resistance    **b\_gravity**    c\_friction

21\_Friction force .....the movement of object

a\_**slow down**    b\_increase    c\_speed ups



**Write scientific term**

1. Geosphere
2. Atmosphere
3. Biosphere
4. Hydrosphere
5. Weathering
6. Erosion
7. Biome
8. Watershed
9. Tributary
10. Upstream
11. Downstream
12. Preservation
13. Sustainability
14. Gravity
15. Force
16. Friction
17. Air resistance
18. Law of motion
19. Magnetism
20. Earth's axis
21. Rotation
22. Revolution
23. Cycle
24. Solar system
25. Constellation
26. Stars
27. Galaxy
28. Universe
29. Atmosphere
30. Planetarium

**Complete the following sentences:**

1. In High Dam, water is used to generate..**electricity**.....
2. We must take a quick shower to conserve ....**water**.....
3. When the rate of rainfall decreases, the level of water in rivers will  
...**decrease**..... causing .....**drought**.....
4. The land that is partially covered with water is called....**wetland**.....



5. When a river meets a sea an ...**delta**..... is formed
6. The type of water that is found in rivers, most of lakes and streams is a ...**fresh**..... Water
7. To conserve water, we can...**decrease**.....time of washing our hands.
8. Building..**dams**..... across a tributary can change the amount of water in it.
9. The extinction of some species that live in fresh water is due to the poor...**quality**.....of fresh water.
- 10.If we use fossil fuels wisely without negatively affecting their amount inthe future, this is called.....**sustainabilty**.....
- 11-Water is responsible for ...**weathering**.....process and **erosion**.....process of rocks
- 12-When a river meets a sea .....**estuary**.....is formed.
- 13-A rat that digs a burrow in the soil is an example of interaction between two spheres which are ..**biosphere**.....and .....**geosphere**....
- 14-Most lakes have.**fresh**.....water ,while some other lakes have ...**salt**.....water
- 15-Abyssal zone in the ocean is a dark area as ..**sunlight**..... cannot reach it.
- 16-Rivers contain .....**fresh**...water,while Oceans contain .**salt**.....water
- 17-when the rate of rainfall increases,the level of water will **increase**.....causing ...**flooding**....
- 18- Groundwater is replaced by.....**rainwater**....
- 19-Cotton ,....**sand**.....and....**charcoal**.....can be used in making a simple water filter
- 20-.....**lakes**...are formed when water collects in low-lying areas

**Put (true) or false :**

1. A river always flows from an area of lower place to an area with higher place. ( × )
2. All animals and plants can live in aquatic habitats . ( × )
3. Some animals live in streams such as catfish and salmon. ( ✓ )
4. Lake Bardawil is an example of saltwater lakes in Egypt. ( ✓ )
5. Some ponds and lakes may dry up in winter months. ( × )



6. Dams can be used to filter polluted water to be used again. ( × )
7. You can conserve water by leaving the tap open during brushing your teeth. ( × )
8. Upstream is the place where a river starts. ( √ )
9. The type of water in oceans is salt water only. ( √ )
10. Soil pollution causes the death of plants and animals. ( √ )
11. Air resistance is a type of friction force. ( √ )
12. Friction force opposes the movement of an object. ( √ )
13. The direction and mass of an object are changed due to gravity. ( × )
14. When using the bicycle brake, the bicycle stops due to the friction force between the brake and the tires. ( √ )
15. Gravity pulls objects toward the center of earth. ( √ )
16. When we visit planetarium, we will see images about living organisms. ( × )
17. Half of the moon is illuminated at the first quarter phase of the moon. ( √ )
18. The regular pattern of day and night occurs due to the rotation of Earth around the Sun. ( × )
19. We can feel the movement of Earth easily. ( × )
20. The sun appears in the same place in the sky all the day ( × )

**Give reason for :**

- 1) Most of fresh water on earth can't be used for drinking  
-Because most of fresh water on earth are in the form of frozen water
- 2) You should turn off tap during brushing your teeth  
-To conserve fresh water
- 3) We must conserve fresh water  
-Because the amount of fresh water is limited on earth



- 4) The moon is attracted to the earth  
-Due to the gravitational force between earth and moon
- 5) The ball changes its direction after we throw it upward  
-Because gravity force always pulls it downwards
- 6) Gravity of earth is greater than the gravity of the moon  
-Because the mass of earth is greater than the mass of the moon
- 7) Some iron nails are attracted to the magnet  
-Because magnetism force pulls them to the magnet
- 8) Planets revolve around the sun in fixed orbits  
-Due to the great gravitational pulling force between the sun and planets
- 9) Wastewater engineers test the treated water  
-To make sure if it is safe before the water is released to rivers and lakes
- 10) You always land on the ground when you jump up  
-Because earth pulls you by the effect of gravity

**2) What happens if.....**

- 1.the distance between the moon and Earth increase .  
-The gravity will decrease
2. the mass of the moon decreases.  
-The gravity will decrease
- 3.there is no gravity on the Earth  
-All objects would float off out of space
4. if a metal ball and a feather are fallen down.  
-Metal ball falls at first then the feather
- 5.Earth doesn't rotate on its Axis.  
-There is no day and night
6. Half of Earth faces the sun.  
-It has a day



7. sunlight falls on the moon surface.

-The moon will reflect the sunlight and appear lighten

8.the length of the shadow of an object at noon.

-The shadow will be shorter

9. if there is no air resistance and two objects with different masses are thrown.

-Both of them fall at the same time

10- what happens to The gravity of sun if it is mass decreases?

.....its gravity will decreases and can not attract all the planets to toward it .....

**Cross out the odd word :**

1-Nickel - Cobalt - wood- Iron. (Wood)

2- friction - Sun - Gravity - Air Resistance. (Sun)

3-Earth - Jupiter - Sun- moon. (Sun)

4-Gravity - wind - full moon phase - Magnetism. (Full moon phase)

5-Crescent - full moon- Earth - Gibbous. (Earth)

6-Hydrogen - helium - Nitrogen -Hot gases. (Nitrogen)

7-Binoculars - Telescope- universe - force. (Force)

8-East - west -Gravity- North. (Gravity)

9-Atmasphere- Planets - Sun - Solar System . (Atmosphere)

10- Galileo - Copernicus - Newton -Albert Einstein. (Newton)

11- Stars - Galaxy - universe -friction. (Friction)

12- first Crescent - second Crescent - first gibbous - first quarter. (Second Crescent)

13- Day and night - Earth -four seasons -water cycle. (Earth)

14. Day - night - friction - rotation. (Friction)

15-Speed-mass-distance - gravity. (Speed)



Answer the following:

1- What is the force that makes planets revolve in fixed orbits around the Sun?  
.....gravitational force .....

2-What are the factors that affect the gravity between two objects?  
.....distance and mass .....

3-What is the name of the force that's opposite the motion?  
.....friction force.....

Imagine that jar (A) contains air, while jar (B) doesn't contain air.

A-The two bodies in jar (A) are affected by (gravity only - air resistance and gravity)

B-The two bodies in jar (B) are affected by (gravity only-air resistance and gravity)

Look at the opposite figure, then answer:

1-The force of ....air resistance..... opposes the .....gravitational.....force of Earth and slows down the falling of skydiver

2-When the skydiver opens his parachute the air resistance increases (true )

Study the opposite figure then choose the correct answer

1-.....Is the largest mess  
(the moon -the sun -the earth)

2... ..... has the smallest size  
(the moon -the sun -the earth)

3..... has the lowest gravity force  
(the moon -the sun -the earth)



## Final revision grade 5

**Choose the correct answer:**

- 1- All the following are components of the atmosphere, except  
a) oxygen gas    b) nitrogen gas    c) molten rocks    d) water vapor
- 2- Which of the following is a part of the geosphere?  
a) Water    b) Air    c) Rocks    d) plants
- 3- Which of the following is a part of the biosphere?  
a) Ice    b) clouds    c) Water    d) Animals
- 4- Mountains and valleys are parts of .....  
a) geosphere    b) atmosphere    c) biosphere    d) hydrosphere.
- 5- Rocks are broken down into smaller particles during ..... process.  
a) photosynthesis    b) weathering    c) erosion    d) respiration
- 6- Irrigation of plants is an example of the interaction between two Earth's systems which are ..... and .....  
a) hydrosphere – geosphere    b) atmosphere - biosphere  
c) geosphere – atmosphere    d) biosphere - hydrosphere.
- 7- Roots fix plants in the soil, this is an interaction between .....  
a) biosphere – geosphere    b) atmosphere – biosphere  
c) geosphere – atmosphere    d) biosphere – hydrosphere
- 8- Polar bears live on ice, this is an example of an interaction between ..... and .....  
a) atmosphere – hydrosphere    b) geosphere – hydrosphere  
c) biosphere – geosphere    d) biosphere – hydrosphere
- 9- Water evaporation and its condensing on planet Earth show an interaction between ..... and .....  
a) atmosphere – hydrosphere    b) geosphere – hydrosphere  
c) biosphere – geosphere    d) biosphere – hydrosphere
- 10- Water is used in all the following purposes, except ....  
a) recreation    b) burning    c) bathing    d) manufacturing



- 11- Water covers nearly ..... of the Earth planet.  
a)  $\frac{1}{4}$                       b)  $\frac{1}{2}$                       c)  $\frac{3}{4}$                       d)  $\frac{3}{5}$
- 12- 96.5 % of Earth's water is .....  
a) salt water      b) sugar water      c) fresh water      d) frozen water
- 13- All the following are characteristics of abyssal zone, except  
a) they are very deep areas                      b) sunlight cannot reach it  
c) they are dark areas                      d) they are shallow areas
- 14- Rivers and streams contain ..... water, while ponds contain ..... water.  
a) salt – fresh      b) fresh – salt      c) running – stil      d) still – running
- 15- Water lilies can live in .....  
a) ponds                      b) seas                      c) oceans                      d) deserts
- 16- Among animals that can be found in ponds are ..... and .....  
a) lions – salamanders                      b) dogs – frogs  
c) frogs – salamanders                      d) foxes – bears
- 17- Water can control the ..... of living organisms bodies.  
a) length                      b) height                      c) temperature                      d) volume
- 18- All the following are from sources of water on the Earth, except .....  
a) aquifers                      b) ponds                      c) glaciers                      d) molten rocks.
- 19- Among the sources of water which human can use for drinking  
a) seas                      b) oceans                      c) saltwater lakes                      d) rivers.
- 20- At the end of Nile River Delta, there is an ..... between Nile River and Mediterranean sea.  
a) lake                      b) wetland                      c) ocean                      d) estuary
- 21- Among the kinds of wetlands are .....  
a) swamps and lakes                      b) marshes and bogs  
c) ponds and oceans                      d) swamps and estuaries.
- 22- Among the risks that threaten lots of water areas on Earth are  
a) conservation and scarcity                      b) scarcity and poor quality  
c) conservation and poor quality                      d) conservation and extinction



- 23- The level of water in a river may increase causing flooding, when there is more .....
- a) rainfall                      b) wind                      c) sunlight                      d) sediments.
- 24- ..... can be used to recycle wastewater to be used again.
- a) Bottles                      b) Filters                      c) Dams                      d) Generator
- 25- All the following materials can be used to filter wastewater in simple water filter, except .....
- a) cotton                      b) wood                      c) charcoal                      d) sand
- 26- ..... process is used to get filtered water from polluted water.
- a) Recycling    b) Sustainability    c) Preservation    d) Conservation
- 27- Tributary usually ends by the flowing of its water into .....
- a) bigger ocean.                      b) sea.                      c) river.                      d) lake
- 28- All the following reasons cause water pollution in a river, except .....
- a) litter of a nearby trash dump.  
b) waste of a nearby factory.  
c) chemical fertilizers of a nearby farm.  
d) building a dam across the river
- 29- Prevent developing of Ras Mohammed Protectorate is considered as an example of .....
- a) preservation.    b) pollution.    c) sustainability.    d) consumption.
- 30- Cutting down too many trees of forests leads to .....
- a) deforestation and soil deposition.  
b) overpopulation and soil erosion.  
c) deforestation and soil erosion.  
d) overpopulation and soil deposition.
- 31- In contact force, the two objects need to ..... each other.
- a) attract                      b) repel                      c) touch                      d) break
- 32- A table stands on the ground needs ..... to move.
- a) sunlight                      b) mass                      c) force                      d) air
- 33- Wind turbine blades move by the effect of .....
- a) electricity                      b) gravity                      c) magnetism                      d) wind



- 34- Magnetism is a force that attracts objects made of the following materials, except.....
- a) iron                      b) nickel                      c) wood                      d) cobalt
- 35- ..... is considered as a type of friction force.
- a) air resistance              b) gravity              c) magnetism              d) electricity
- 36- A boy on a slide moves down toward the ground due to the effect of .....
- a) friction force              b) gravity              c) magnetism              d) wind
- 37- Gravitational force of Earth is affected by .....
- a) mass only    b) mass and time.  
c) distance only    d) mass and distance
- 38- Which the following objects has the least attraction force?
- a) The moon              b) The Earth              c) The Sun              d) The magnet
- 39- All the following are properties of Earth's gravity, except.....
- a) it pushes objects upward    b) it affects the moon  
c) it pulls objects downward    d) it is a type of attraction force.
- 40- All the following are properties of magnetism, except.....
- a) it is an invisible force.  
b) it happens only between two touched objects.  
c) it may be pushing or pulling force.  
d) it may push another magnet away.
- 41- When a basketball falls down from a height, it is affected by.....
- a) air resistance    b) gravity  
c) air resistance and friction force    d) a and b
- 42- The Earth rotates around itself once every .....
- a) 24 hours                      b) 365 days                      c) 365 hours                      d) 24 days
- 43- The Earth's axis is .....
- a) real vertical    b) imaginary horizontal  
c) real horizontal    d) imaginary vertical
- 44- The Earth rotates ..... on its axis.
- a) clock wise    b) from north to south  
c) counterclockwise    d) from south to north
- 45- The Sun appears in the ..... during the early morning.
- a) east                      b) west                      c) north                      d) south



46- Rotation of Earth on its axis causes all the following phenomena, except .....

- a) movement of the Sun from east to west.
- b) movement of stars in the sky at night.
- c) some stars seem to rise and set like the Sun.
- d) occurrence of four seasons.

47-.In the middle of the day (at noon) we can see the Sun in ..... of the sky.

- a) the left side
- b) the right side
- c) above in the center
- d) the west direction

48-.The shortest shadow of an object happens .....

- a) in morning
- b) in afternoon
- c) at noon
- d) at night

49-.The Sun forms longer shadow of object .....

- a) in morning
- b) in afternoon
- c) at noon
- d) a and b

50-.The position of the Sun in the sky affects .....and ..... of shadows of objects.

- a) lengths and speed
- b) angles and time
- c) lengths and angles
- d) speed and time

51-.We can't send astronauts to study stars because they are .....

- a) so cold
- b) faraway
- c) too small
- d) too large

52-.Constellations appear ..... in the sky during the year.

- a) at different positions
- b) at the same position
- c) in winter only
- d) in summer only

53-.All the following appear like small light dots in the sky at night, except.....

- a) a satellite
- b) the moon
- c) a star
- d) a meteor

54-.When the Earth is between the moon and the Sun, the moon appears in the ..... phase.

- a) half moon
- b) full moon
- c) new moon
- d) crescent

55-..... is the moon phase at which we can see more than half of the moon face is illuminated.

- a) Crescent
- b) Quarter
- c) Gibbous
- d) New moon



## Complete the following sentences:

- 1- The system that includes all living organisms such as animals and plants is called .....
- 2- The groundwater found in soil and rocks is an example of interaction between .....and .....
- 3- Formation of lakes is an example of an interaction between ..... and .....
- 4- Water is responsible for .....process and ..... process of rocks.
- 5- Weathering of rocks as a result of the effect of rains is an example of an interaction between .....and geosphere.
- 6- By heating of water it changes from .....state to .....state.
- 7- During the water cycle in nature, water evaporates forming ....., then it returns back to the Earth's surface during .....
- 8- Fresh water forms some water bodies such as ..... and some lakes, while ..... and ..... are formed of salt water.
- 9- ..... water forms about 3.5 % of water on Earth, while ..... water forms about 96.5 % of water.
- 10- Catfish live in ..... water, while dolphins live in ..... water.
- 11- Most lakes have ..... water, while some other lakes have ..... water.
- 12- Aquatic ecosystems can be classified into ..... ecosystem and ..... ecosystem.
- 13- Some types of worms live at the bottom of .....
- 14- According to water movement, ponds have ..... water compared to streams that have ..... water.
- 15- ..... makes about two-thirds of human body.
- 16- In High Dam, water is used to generate .....
- 17- We must take a quick shower to conserve .....
- 18- The floor of ..... may contain mountains and plateaus.



- 19- Groundwater is replaced by.....
- 20- The extinction of some species that live in fresh water is due to the poor ..... of fresh water.
- 21- When the rate of rainfall decreases, the level of water in rivers will ..... causing .....
- 22- A farm that is found near a tributary may cause water pollution if this farm is using chemical .....
- 23- Clothes can be made from..... products or ..... products.
- 24- Water filters are used to remove ..... materials from polluted water.
- 25- Wastewater engineers can test the quality of ..... by checking for the amount of .....in water.
- 26- The object at rest needs ..... to move.
- 27- Object changes its position, this object is in a state of .....
- 28- The force that is needed to move a small bike is .....than that needed to move a truck.
- 29- The force of magnetism may ..... objects towards the magnet or ..... objects away from it.
- 30- The direction of ..... force opposes the direction of a body moves through air.
- 31- Gravity pulls objects toward the ..... of Earth.
- 32- Anybody that has a mass must have .....
- 33- When the distance between the moon and the Earth increases, the gravitational attraction between them .....
- 34- If the mass of the moon increases than its real mass, its gravitational attraction will .....
- 35- The gravity of Earth is ..... than that of the moon because the Earth has ..... mass.
- 36- A parachute in air is affected by ..... that acts against the ..... of Earth.
- 37- The Earth revolves around the Sun in a fixed ..... that has an ..... shape.



- 38- Day and night phenomenon occurs due to the rotation of Earth around its .....
- 39- When half of Earth faces the Sun so, it has ....., and the other half has .....
- 40- The Sun appears as it moves from ..... to .....
- 41- The solar system consists of ..... star and eight .....
- 42- Formation of ..... of objects is due to movement of sun across the sky.
- 43- Every night, we can see new stars appear from .....direction.
- 44- The Sun and other stars are made up of ..... gases most of them are ..... and helium.
- 45- A constellation consists of a group of .....that form a pattern.
- 46- Ancient Greeks gave constellation ..... its name relative to a mythical .....
- 47- Planets and ..... can't make their own light.
- 48- Location of ..... in the sky during the year helps us to determine the main ..... of Earth.
- 49- The moon orbits ..... and both of them orbit the .....
- 50- The Sun is a star that gives out a very big amount of ..... and .....
- 51- Through the month, we can see different ..... of the moon in the sky.
- 52- ..... is the moon phase at which moon seems completely bright, while ..... is the moon phase at which moon seems completely dark.
- 53- Planetarium ..... are scientists responsible for making amazing realistic show to bring the outer space to Earth.



## Write the scientific term:

- 1- The system (sphere) that includes fresh water and salt water. (.....)
- 2- The system of Earth which contains all different landforms. (.....)
- 3- The large sheet of ice or snow that moves slowly over Earth's surface. (.....)
- 4- The Earth's system which consists of a mixture of gases surrounding Earth. (.....)
- 5- A cycle shows the continuous movement of water from the Earth to the atmosphere then to the Earth again. (.....)
- 6- The energy which plays an important role in water cycle in nature. (.....)
- 7- The process in which the small particles of rocks are transported from a place to another. (.....)
- 8- A large area of the world that has similar soil, climate, plants and animals. (.....)
- 9- The area along the coast that disappears at the high tide and appears at the low tide. (.....)
- 10- The largest saltwater ecosystems that cover large parts of Earth's surface. (.....)
- 11- The basic liquid matter which is needed by humans, animals and plants to survive. (.....)
- 12- A type of water which is suitable for drinking. (.....)
- 13- It is an area of land where all the water flows to a common location usually an ocean, a sea or other large water body. (.....)
- 14- They are small water bodies such as small creeks or streams that flow into bigger rivers. (.....)
- 15- A building established across a river which can hold water behind it. (.....)
- 16- Scientists who work on recycling water in water treatment plants. (.....)
- 17- The effect that pull or push an object to make it move. (.....)



- 18- The force by which metals are attracted or pulled to a magnet. (.....)
- 19- A type of friction force that opposes the movement of an object as it passes through air. (.....)
- 20- A force that pulls object down toward the ground. (.....)
- 21- A celestial body that orbits the Earth. (.....)
- 22- Celestial bodies that revolve around the Sun in fixed paths.(.....)
- 23- A phenomenon takes place in oceans and seas due to gravity of moon. (.....)
- 24- The law which states that the force of gravity is constant and acts on all objects in the same way. (.....)
- 25- It is an imaginary line that passes through the Earth's two poles. (.....)
- 26- The spinning of Earth on its axis. (.....)
- 27- The orbiting of Earth around the Sun. (.....)
- 28- The phenomenon that occurs when half of the Earth is facing the Sun. (.....)
- 29- The phenomenon that occurs when half of the Earth doesn't receive sunlight. (.....)
- 30- The center of the solar system. (.....)
- 31- The first time piece that is used by ancient Egyptians to know the time. (.....)
- 32- The group of stars that make a certain shape in the sky. (.....)
- 33- They are giant spheres of superhot gases. (.....)
- 34- A special building with dome ceiling, and is used to see images of celestial bodies. (.....)

**Put (✓) or (x):**



- 1) Earth's systems don't interact with each other. ( )
- 2) When wind carries seeds of some plants to new places, an interaction between atmosphere and biosphere can be observed. ( )
- 3) Rainwater is the only reason for weathering and erosion of rocks on the Earth's surface. ( )
- 4) Water is important for growing of living organisms. ( )
- 5) Deserts and forests are examples of biomes. ( )
- 6) Water evaporates from the surface of a lake will move from atmosphere to hydrosphere. ( )
- 7) If there is no hydrosphere, the biosphere will not exist. ( )
- 8) Water on the Earth is divided into fresh water and salt water. ( )
- 9) The amount of fresh water on Earth is more than the amount of salt water. ( )
- 10) Most of the salt water on Earth is found in the form of frozen water. ( )
- 11) The total amount of water on Earth doesn't change. ( )
- 12) All animals and plants can live in aquatic habitats. ( )
- 13) Some ponds and lakes may dry up in winter months. ( )
- 14) Without water, all forms of life will disappear. ( )
- 15) There are no living organisms live in the hydrosphere. ( )
- 16) When the amount of water decreases or water get polluted, biosphere will be affected. ( )
- 17) A river always flows from an area of low place to an area with higher place. ( )
- 18) Wells and springs obtain their water from aquifers. ( )
- 19) The amount of salt water on the Earth is smaller than the amount of fresh water. ( )
- 20) Some animals and plants live in water. ( )
- 21) The place where two oceans meet is called an estuary. ( )
- 22) Rivers and streams are freshwater moving bodies. ( )
- 23) Turning off the water tap, while washing your hair is from the



- ways to conserve water. ( )
- 24) We can drink the water of seas. ( )
- 25) Rivers often start in mountains in the form of estuaries. ( )
- 26) Assal lake is surrounded by land and it is a low-lying area. ( )
- 27) The type of water in lakes is salt water only. ( )
- 28) Upstream is the place where a river starts. ( )
- 29) Preservation and sustainability are ways to conserve natural resources. ( )
- 30) Placing many cows in small grass areas is considered as unsustainable situation. ( )
- 31) Recycling of wastewater means removing waste materials from it. ( )
- 32) Water is considered as a nonrenewable natural resource. ( )
- 33) Adding some of mud to clear water can pollute it. ( )
- 34) Wastewater engineers decide where to build water treatment plants. ( )
- 35) Force is the reason of motion of any body. ( )
- 36) Magnet must touch objects to attract them. ( )
- 37) The force of magnet is always attraction force only. ( )
- 38) Force of gravity can be seen easily, but we cannot see its effects. ( )
- 39) Objects are pushed away of each other due to gravity. ( )
- 40) Gravity affects the movement of objects. ( )
- 41) If two objects don't touch each other, there is no gravity between them. ( )
- 42) Small planets have bigger gravity than big planets. ( )
- 43) All planets of the solar system rotate around the Sun in one orbit only. ( )
- 44) Skydiving sport depends on gravity and air resistance. ( )
- 45) Gravity is similar to magnetism because both of them have only pulling force. ( )
- 46) Gravity affects only on the moving objects but doesn't affect the objects at rest. ( )
- 47) Gravity is the force that holds all objects in their places. ( )



- 48) The direction and mass of an object are changed due to gravity. ( )
- 49) If there is no air resistance on Earth, all objects will reach the Earth's surface at the same moment when dropping them from the same height. ( )
- 50) Heavier objects reach Earth's surface before smaller objects due to the effect of air resistance. ( )
- 51) There is no air in space, so air resistance slows down the movement of objects through space. ( )
- 52) The orbit of each planet has an ellipse shape. ( )
- 53) The Earth revolves around the Sun once every 24 hours. ( )
- 54) All parts of Earth receive sunlight at the same time. ( )
- 55) If you change your direction on Earth's surface, the Sun will rise from west. ( )
- 56) The Sun rises in the east and sets in the west. ( )
- 57) Most of stars don't appear moving in the sky. ( )
- 58) Earth revolves around the Sun in a fixed path. ( )
- 59) We can feel the movement of Earth easily. ( )
- 60) All objects on Earth's surface move with the same speed of Earth. ( )
- 61) The Sun appears in the same place in the sky all the day. ( )
- 62) Planets of the solar system rotate on their axes with different speeds. ( )
- 63) The position of the shadow of Cairo Tower will not change during the day. ( )
- 64) The Sun is the biggest star in the universe. ( )
- 65) All celestial bodies make their own light. ( )
- 66) The Sun is a medium sized star. ( )
- 67) The Sun seems smaller, because it is much farther from Earth than other stars. ( )
- 68) Superhot gases of the Sun burn producing heat and light energy. ( )
- 69) Constellations have similar shapes in the sky. ( )
- 70) The moon seems shiny because it absorbs sunlight. ( )
- 71) The moon has only one phase during the lunar month. ( )



- 72) At crescent phase, a part of the moon edge appears bright. ( )
- 73) The Sun is bigger than the moon. ( )
- 74) The atmosphere let all light waves to pass to the Earth. ( )
- 75) Planetarium has a projector to display pictures on its ceiling. ( )

**Correct the underlined words:**

- 1- The system that includes rocks and heavy metals is called hydrosphere. (.....)
- 2- Rainwater is a part of biosphere. (.....)
- 3- Presence of dolphins in oceans represents an interaction between hydrosphere and geosphere. (.....)
- 4- A spring flows out from a rock is an example of an interaction between hydrosphere and atmosphere. (.....)
- 5- Water can change into water vapor in extreme cold weather. (.....)
- 6- A rat that digs a barrow in the soil is an example of the interaction between biosphere and atmosphere. (.....)
- 7- Shallow areas of oceans don't receive sunlight. (.....)
- 8- Abyssal areas of oceans contain coral reefs and intertidal zones. (.....)
- 9- Some animals live in bonds such as catfish, and trout. (.....)
- 10- High quality of fresh water leads to the death of marine organisms live in it. (.....)
- 11- Planets in the solar system revolve in fixed orbits due to the friction between the Sun and planets. (.....)
- 12- The gravitational force of Earth to a person in a flying airplane is greater than it when the same person stands on the ground.(.....)
- 13- The change of an object position is called force. (.....)
- 14- Magnetism is a kind of visible force. (.....)
- 15- Air resistance is a type of pulling force. (.....)



- 16- Gravity is attraction or repulsion force between two magnets or between the magnet and an object. (.....)
- 17- Magnetism is the force of attraction that changes the direction of a moving object in air towards the ground. (.....)
- 18- All objects on Earth's surface is affected by repulsion force of gravity. (.....)
- 19- Any object has gravity depending on its length. (.....)
- 20- Air resistance speeds up the object as it falls. (.....)
- 21- The Earth's gravity keeps all planets in their orbits. (.....)
- 22- Gravity is the attraction or pulling force that keeps all stars in their orbits around the Sun. (.....)
- 23- The Earth orbits the Sun in a rectangular path. (.....)
- 24- The time taken by Earth to complete one rotation on its axis is called year. (.....)
- 25- The Earth's axis is a real line passes through Earth's poles. (.....)
- 26- Earth rotates on its axis at low speed. (.....)
- 27- At the beginning of the day, the Sun appears in the west direction. (.....)
- 28- In the early morning, the Sun would be above you in the center of the sky. (.....)
- 29- Planets are celestial bodies that make their own light. (.....)
- 30- Constellations have similar shapes in the sky. (.....)
- 31- Stars are made up of hot liquids. (.....)
- 32- The moon takes one lunar year to complete one cycle around the Earth. (.....)
- 33- At the gibbous phase, one edge only appears bright. (.....)



### Give reasons for:

- 1- Water can affect nonliving things like rocks.  
➤ .....
- 2- Hiding of worms inside the soil is an example of an interaction between two Earth's spheres.  
➤ .....
- 3- Importance of atmosphere for plants in making their food.  
➤ .....
- 4- Water is important for all plants on Earth.  
➤ .....
- 5- Our planet looks like a blue marble from the space.  
➤ .....
- 6- More than 50% of known living organisms live in the aquatic environments.  
➤ .....
- 7- Most of the fresh water on Earth can't be used for drinking.  
➤ .....
- 8- Not every water source is used as drinking water.  
➤ .....
- 9- Water that forms the hydrosphere is one of the renewable resources on Earth.  
➤ .....
- 10- No green plants can survive in the abyssal zones of oceans.  
➤ .....
- 11- We must conserve fresh water.  
➤ .....
- 12- You should turn off water tap during brushing your teeth.  
➤ .....
- 13- Groundwater is called by this name.  
➤ .....
- 14- Farms near tributaries may cause water pollution.  
➤ .....



15- Countries prevent using or developing natural resources in some protected areas of land.

➤ .....

16- Paper clips (or iron nails) are pulled toward the magnet.

➤ .....

17- When using the bicycle brake, the bicycle stops.

➤ .....

18- The ball changes its direction after we throw it upwards.

➤ .....

19- The moon is attracted to Earth.

(The moon stays in fixed orbit around Earth)

➤ .....

20- Gravity of Earth is greater than gravity of the moon.

➤ .....

21- The astronauts float in space.

➤ .....

22- The force of gravity has an important role in the solar system.

➤ .....

23- Planets revolve around the Sun in fixed orbits.

➤ .....

24- Air resistance affects the movement of an object which falls from a height.

➤ .....

25- Skydiver opens his parachute during landing.

➤ .....

26- A pencil takes a longer time to reach Earth's surface than a large rock if they are thrown from the same height.

➤ .....

27- Occurrence of day and night.

➤ .....

28- Half of Earth appears dark at night.

➤ .....



29- Occurrence of the four seasons.

➤ .....

30- The Sun appears as it moves in the sky.

(In the night sky, some stars seem to rise and set like the Sun.)

➤ .....

31- Although Earth rotates on its axis, we don't feel its movement.

➤ .....

32- The length of the shadow of an object changes throughout the day.

➤ .....

33- The sun is a star.

➤ .....

34- The Sun looks much larger to us than other stars.

➤ .....

35- The moon appears bright in the sky at night.

➤ .....

36- Earth and the moon are not considered stars.

➤ .....

37- The moon has different phases in the night sky.

➤ .....

38- Atmosphere limits the using of some telescopes to see distant celestial bodies.

➤ .....

### What happens if:

1- People don't conserve fresh water.

➤ .....

2- Fresh water of a river when it meets the salt water of a sea.

➤ .....

3- Water is collected in a low-lying area.

➤ .....

4- The quality of fresh water becomes poor.

➤ .....



5- The rate of rainfall increases on a river.

➤ .....

6- A trash dump is established near a tributary that is connected with a river.

➤ .....

7- You mix clear water with small amount of mud.

➤ .....

8- Skydiver opens his parachute during landing.

➤ .....

9- The mass of the moon decreases to half.

➤ .....

10- There is no gravity on Earth.

➤ .....

11- The gravity of Earth is a repulsion force not an attraction force.

➤ .....

12- If the gravity between Earth and the moon disappears.

➤ .....

13- The gravity of the Sun disappears.

➤ .....

14- A metal ball and a feather are fallen down from a tower.

➤ .....

15- You throw two iron balls have the same mass from the same height.

➤ .....

16- There is no resistance and two objects with different masses are thrown from the same height.

➤ .....

17- Earth doesn't rotate on its axis.

(Earth stops spinning on its axis.)

➤ .....

18- Half of Earth faces the sun.

➤ .....



19- Earth doesn't revolve around the sun.

➤ .....

20- The shadow of an object if the Sun locates at east or west in the sky.

➤ .....

21- Stars are not made up of hot gases.

➤ .....

22- Half of the moon faces the Sun.

➤ .....

**Choose from column (B) what suits it in column (A)**

1)

Column A	Column B
1) The word "Geo" refers to	a) water
2) The word "Hydro" refers to	b) Earth
3) The word "Atmos" refers to	c) life
4) The word "bio" refers to	d) vapor

1	2	3	4
.....	.....	.....	.....

2)

Column A	Column B
1) Oceans	a) contain fresh water or salt water
2) Lakes	b) contain salt water only.
3) Rivers	c) contain mixture of fresh water and salt water.
4) Estuary	d) contain fresh water only.
5) Groundwater	e) is the water found between pores of rocks below Earth's surface.

1	2	3	4	5
.....	.....	.....	.....	.....



3)

Column A	Column B
1) A water body that often starts in the mountain as a stream.	a) Estuary
2) It is formed when a river meets a sea.	b) River
3) The large water body that is surrounded by land and formed when water collects in low-lying areas.	c) Wetland
4) The water bodies that surround the continents	d) Lake
5) It is a land area which is partially covered with water.	e) Oceans

1	2	3	4	5
.....	.....	.....	.....	.....

4)

Column A	Column B
1) Trees	a) Can be used in making plastic.
2) Sustainability	b) Can be used in making paper.
3) Oil products	c) Can be used in making clothes.
4) Cotton	d) The action of control reaching of humans to the natural resources or using them.
5) Preservation	e) Using resources in a way that doesn't negatively affect the future supply of these resources.

1	2	3	4	5
.....	.....	.....	.....	.....

5)

Column A	Column B
1) The force that arises between two objects when they touch each other.	a) Gravity
2) The force acts on all objects on Earth.	b) Contact force
3) The force between two objects that don't touch each other.	c) Friction force
4) The force opposes and slows down the movement of an object.	d) Non contact force

1	2	3	4
.....	.....	.....	.....



6)

Column A	Column B
1) Jupiter	a) is the path in which planets revolve around the Sun
2) Earth	b) is the fastest planet that rotates on its axis.
3) Orbit	c) Consists of sun and planets.
4) Solar system	d) is the planet that completes one cycle on its axis in 24 hours.
5) Cycle	e) The series of events that is repeated in the same order.

1	2	3	4	5
.....	.....	.....	.....	.....

7)

Column A	Column B
1) The scientist who discovered that the Sun is the center of our solar system.	a) Galaxy
2) Tools help scientists to see distant objects in space with more details.	b) Atmosphere
3) A group of stars, planets and gases held together by gravity.	c) Copernicus
4) The wide space that contains celestial bodies as stars, galaxies, comets and meteors.	d) Galileo binoculars and Hubble space telescope
5) A protective layer around Earth that allows some light waves to pass and block the others.	e) The Universe

1	2	3	4	5
.....	.....	.....	.....	.....

**Cross out the odd words:**

- 1- Water – carbon dioxide – oxygen – nitrogen.
- 2- Oceans – Rivers – Rocks– Lakes.
- 3- Ponds – rivers – rains – oceans.
- 4- Gulfs – seas – oceans – rivers.
- 5- Kelp – starfish – Moses fish – Frogs.
- 6- Gravity – Sun – Friction force – Magnetism.
- 7- Earth – Jupiter – The Sun – The moon.
- 8- Crescent – Full moon – Shadow – Gibbous.



## Final revision grade 5 (Guide answers)

### Choose the correct answer:

- 1- All the following are components of the atmosphere, except.....  
a) oxygen gas      b) nitrogen gas      c) molten rocks      d) water vapor
- 2- Which of the following is a part of the geosphere?  
a) Water      b) Air      c) Rocks      d) plants
- 3- Which of the following is a part of the biosphere?  
a) Ice      b) clouds      c) Water      d) Animals
- 4- Mountains and valleys are parts of .....  
a) geosphere      b) atmosphere      c) biosphere      d) hydrosphere.
- 5- Rocks are broken down into smaller particles during ..... process.  
a) photosynthesis      b) weathering      c) erosion      d) respiration
- 6- Irrigation of plants is an example of the interaction between two Earth's systems which are ..... and .....  
a) hydrosphere – geosphere      b) atmosphere - biosphere  
c) geosphere – atmosphere      d) biosphere - hydrosphere.
- 7- Roots fix plants in the soil, this is an interaction between .....  
a) biosphere – geosphere      b) atmosphere – biosphere  
c) geosphere – atmosphere      d) biosphere – hydrosphere
- 8- Polar bears live on ice, this is an example of an interaction between ..... and .....  
a) atmosphere – hydrosphere      b) geosphere – hydrosphere  
c) biosphere – geosphere      d) biosphere – hydrosphere
- 9- Water evaporation and its condensing on planet Earth show an interaction between ..... and .....  
a) atmosphere – hydrosphere      b) geosphere – hydrosphere  
c) biosphere – geosphere      d) biosphere – hydrosphere
- 10- Water is used in all the following purposes, except .....  
a) recreation      b) burning      c) bathing      d) manufacturing



- 11- Water covers nearly ..... of the Earth planet.  
a)  $\frac{1}{4}$                       b)  $\frac{1}{2}$                       c)  $\frac{3}{4}$                       d)  $\frac{3}{5}$
- 12- 96.5 % of Earth's water is .....  
a) salt water              b) sugar water              c) fresh water              d) frozen water
- 13- All the following are characteristics of abyssal zone, except.....  
a) they are very deep areas                      b) sunlight cannot reach it  
c) they are dark areas                      d) they are shallow areas
- 14- Rivers and streams contain ..... water, while ponds contain ..... water.  
a) salt – fresh              b) fresh – salt              c) running – stil              d) still – running
- 15- Water lilies can live in .....  
a) ponds                      b) seas                      c) oceans                      d) deserts
- 16- Among animals that can be found in ponds are ..... and .....  
a) lions – salamanders                      b) dogs – frogs  
c) frogs – salamanders                      d) foxes – bears
- 17- Water can control the ..... of living organisms bodies.  
a) length                      b) height                      c) temperature                      d) volume
- 18- All the following are from sources of water on the Earth, except .....  
a) aquifers                      b) ponds                      c) glaciers                      d) molten rocks.
- 19- Among the sources of water which human can use for drinking.....  
a) seas                      b) oceans                      c) saltwater lakes                      d) rivers.
- 20- At the end of Nile River Delta, there is an ..... between Nile River and Mediterranean sea.  
a) lake                      b) wetland                      c) ocean                      d) estuary
- 21- Among the kinds of wetlands are .....  
a) swamps and lakes                      b) marshes and bogs  
c) ponds and oceans                      d) swamps and estuaries.
- 22- Among the risks that threaten lots of water areas on Earth are.....  
a) conservation and scarcity                      b) scarcity and poor quality  
c) conservation and poor quality                      d) conservation and extinction

- 23- The level of water in a river may increase causing flooding, when there is more .....
- a) rainfall      b) wind      c) sunlight      d) sediments.
- 24- ..... can be used to recycle wastewater to be used again.
- a) Bottles      b) Filters      c) Dams      d) Generator
- 25- All the following materials can be used to filter wastewater in simple water filter, except .....
- a) cotton      b) wood      c) charcoal      d) sand
- 26- ..... process is used to get filtered water from polluted water.
- a) Recycling      b) Sustainability      c) Preservation      d) Conservation
- 27- Tributary usually ends by the flowing of its water into .....
- a) bigger ocean.      b) sea.      c) river.      d) lake
- 28- All the following reasons cause water pollution in a river, except .....
- a) litter of a nearby trash dump.  
b) waste of a nearby factory.  
c) chemical fertilizers of a nearby farm.  
d) building a dam across the river.
- 29- Prevent developing of Ras Mohammed Protectorate is considered as an example of .....
- a) preservation.      b) pollution.      c) sustainability.      d) consumption.
- 30- Cutting down too many trees of forests leads to .....
- a) deforestation and soil deposition.  
b) overpopulation and soil erosion.  
c) deforestation and soil erosion.  
d) overpopulation and soil deposition.
- 31- In contact force, the two objects need to ..... each other.
- a) attract      b) repel      c) touch      d) break
- 32- A table stands on the ground needs ..... to move.
- a) sunlight      b) mass      c) force      d) air
- 33- Wind turbine blades move by the effect of .....
- a) electricity      b) gravity      c) magnetism      d) wind



- د/ زینب صلاح

46- Rotation of Earth on its axis causes all the following phenomena, except .....

- a) movement of the Sun from east to west.
- b) movement of stars in the sky at night.
- c) some stars seem to rise and set like the Sun.
- d) occurrence of four seasons.

47-.In the middle of the day (at noon) we can see the Sun in ..... of the sky.

- a) the left side
- b) the right side
- c) above in the center
- d) the west direction

48-.The shortest shadow of an object happens .....

- a) in morning
- b) in afternoon
- c) at noon
- d) at night

49-.The Sun forms longer shadow of object .....

- a) in morning
- b) in afternoon
- c) at noon
- d) a and b

50-.The position of the Sun in the sky affects .....and ..... of shadows of objects.

- a) lengths and speed
- b) angles and time
- c) lengths and angles
- d) speed and time

51-.We can't send astronauts to study stars because they are .....

- a) so cold
- b) faraway
- c) too small
- d) too large

52-.Constellations appear ..... in the sky during the year.

- a) at different positions
- b) at the same position
- c) in winter only
- d) in summer only

53-.All the following appear like small light dots in the sky at night, except.....

- a) a satellite
- b) the moon
- c) a star
- d) a meteor

54-.When the Earth is between the moon and the Sun, the moon appears in the ..... phase.

- a) half moon
- b) full moon
- c) new moon
- d) crescent

55-..... is the moon phase at which we can see more than half of the moon face is illuminated.

- a) Crescent
- b) Quarter
- c) Gibbous
- d) New moon



## Complete the following sentences:

- 1- The system that includes all living organisms such as animals and plants is called biosphere.
- 2- The groundwater found in soil and rocks is an example of interaction between hydrosphere and geosphere.
- 3- Formation of lakes is an example of an interaction between hydrosphere and geosphere.
- 4- Water is responsible for weathering process and erosion process of rocks.
- 5- Weathering of rocks as a result of the effect of rains is an example of an interaction between hydrosphere and geosphere.
- 6- By heating of water it changes from liquid state to gas state.
- 7- During the water cycle in nature, water evaporates forming clouds, then it returns back to the Earth's surface during rain.
- 8- Fresh water forms some water bodies such as rivers and some lakes, while seas and oceans are formed of salt water.
- 9- Fresh water forms about 3.5 % of water on Earth, while salt water forms about 96.5 % of water.
- 10- Catfish live in fresh water, while dolphins live in salt water.
- 11- Most lakes have fresh water, while some other lakes have salt water.
- 12- Aquatic ecosystems can be classified into freshwater ecosystem and saltwater ecosystem.
- 13- Some types of worms live at the bottom of ponds.
- 14- According to water movement, ponds have still water compared to streams that have running water.
- 15- Water makes about two-thirds of human body.
- 16- In High Dam, water is used to generate electricity.
- 17- We must take a quick shower to conserve water.
- 18- The floor of oceans may contain mountains and plateaus.
- 19- Groundwater is replaced by rains.
- 20- The extinction of some species that live in fresh water is due to the poor quality of fresh water.

- 21- When the rate of rainfall decreases, the level of water in rivers will decrease causing drought.
- 22- A farm that is found near a tributary may cause water pollution if this farm is using chemical fertilizers.
- 23- Clothes can be made from animal products or plant products.
- 24- Water filters are used to remove waste materials from polluted water.
- 25- Wastewater engineers can test the quality of water by checking for the amount of pollutants in water.
- 26- The object at rest needs force to move.
- 27- Object changes its position, this object is in a state of motion.
- 28- The force that is needed to move a small bike is smaller than that needed to move a truck.
- 29- The force of magnetism may pull objects towards the magnet or push objects away from it.
- 30- The direction of friction force opposes the direction of a body moves through air.
- 31- Gravity pulls objects toward the center of Earth.
- 32- Anybody that has a mass must have gravity.
- 33- When the distance between the moon and the Earth increases, the gravitational attraction between them decreases.
- 34- If the mass of the moon increases than its real mass, its gravitational attraction will increase.
- 35- The gravity of Earth is greater than that of the moon because the Earth has larger mass.
- 36- A parachute in air is affected by air resistance that acts against the gravity of Earth.
- 37- The Earth revolves around the Sun in a fixed orbit that has an oval shape.
- 38- Day and night phenomenon occurs due to the rotation of Earth around its axis.
- 39- When half of Earth faces the Sun so, it has day, and the other half has night.



- 40- The Sun appears as it moves from east to west.
- 41- The solar system consists of one star and eight planets.
- 42- Formation of shadow of objects is due to movement of sun across the sky.
- 43- Every night, we can see new stars appear from east direction.
- 44- The Sun and other stars are made up of hot gases most of them are hydrogen and helium.
- 45- A constellation consists of a group of stars that form a pattern.
- 46- Ancient Greeks gave constellation Orion its name relative to a mythical hunter.
- 47- Planets and moon can't make their own light.
- 48- Location of constellations in the sky during the year helps us to determine the main directions of Earth.
- 49- The moon orbits Earth and both of them orbit the sun.
- 50- The Sun is a star that gives out a very big amount of light and heat.
- 51- Through the month, we can see different phases of the moon in the sky.
- 52- Full moon is the moon phase at which moon seems completely bright, while new moon is the moon phase at which moon seems completely dark.
- 53- Planetarium directors are scientists responsible for making amazing realistic show to bring the outer space to Earth.

### Write the scientific term:

- 1- The system (sphere) that includes fresh water and salt water. (Hydrosphere)
- 2- The system of Earth which contains all different landforms. (Geosphere)
- 3- The large sheet of ice or snow that moves slowly over Earth's surface. (Glacier)
- 4- The Earth's system which consists of a mixture of gases surrounding Earth. (Atmosphere)

- 5- A cycle shows the continuous movement of water from the Earth to the atmosphere then to the Earth again. (Water cycle)
- 6- The energy which plays an important role in water cycle in nature. (solar energy)
- 7- The process in which the small particles of rocks are transported from a place to another. (Erosion process)
- 8- A large area of the world that has similar soil, climate, plants and animals. (Biome)
- 9- The area along the coast that disappears at the high tide and appears at the low tide. (Intertidal zones)
- 10- The largest saltwater ecosystems that cover large parts of Earth's surface. (Oceans)
- 11- The basic liquid matter which is needed by humans, animals and plants to survive. (Water)
- 12- A type of water which is suitable for drinking. (Freshwater)
- 13- It is an area of land where all the water flows to a common location usually an ocean, a sea or other large water body. (Watershed)
- 14- They are small water bodies such as small creeks or streams that flow into bigger rivers. (Tributaries)
- 15- A building established across a river which can hold water behind it. (Dam)
- 16- Scientists who work on recycling water in water treatment plants. (Wastewater engineers)
- 17- The effect that pull or push an object to make it move. (Force)
- 18- The force by which metals are attracted or pulled to a magnet. (Magnetism)
- 19- A type of friction force that opposes the movement of an object as it passes through air. (Air resistance)
- 20- A force that pulls object down toward the ground. (Gravity)
- 21- A celestial body that orbits the Earth. (Moon)
- 22- Celestial bodies that revolve around the Sun in fixed paths. (Planets)



- 23- A phenomenon takes place in oceans and seas due to gravity of moon. (Ocean tides)
- 24- The law which states that the force of gravity is constant and acts on all objects in the same way. (Law of motion)
- 25- It is an imaginary line that passes through the Earth's two poles. (Earth's axis)
- 26- The spinning of Earth on its axis. (Earth's rotation)
- 27- The orbiting of Earth around the Sun. (Earth's revolution)
- 28- The phenomenon that occurs when half of the Earth is facing the Sun. (Day)
- 29- The phenomenon that occurs when half of the Earth doesn't receive sunlight. (Night)
- 30- The center of the solar system. (The sun)
- 31- The first time piece that is used by ancient Egyptians to know the time. (Sundial)
- 32- The group of stars that make a certain shape in the sky. (Constellation)
- 33- They are giant spheres of superhot gases. (Stars)
- 34- A special building with dome ceiling, and is used to see images of celestial bodies. (Planetarium)

**Put (✓) or (x):**

- 1) Earth's systems don't interact with each other. (x)
- 2) When wind carries seeds of some plants to new places, an interaction between atmosphere and biosphere can be observed. (✓)
- 3) Rainwater is the only reason for weathering and erosion of rocks on the Earth's surface. (x)
- 4) Water is important for growing of living organisms. (✓)
- 5) Deserts and forests are examples of biomes. (✓)
- 6) Water evaporates from the surface of a lake will move from atmosphere to hydrosphere. (x)
- 7) If there is no hydrosphere, the biosphere will not exist. (✓)

- 8) Water on the Earth is divided into fresh water and salt water. (√)
- 9) The amount of fresh water on Earth is more than the amount of salt water. (x)
- 10) Most of the salt water on Earth is found in the form of frozen water. (x)
- 11) The total amount of water on Earth doesn't change. (√)
- 12) All animals and plants can live in aquatic habitats. (x)
- 13) Some ponds and lakes may dry up in winter months. (x)
- 14) Without water, all forms of life will disappear. (√)
- 15) There are no living organisms live in the hydrosphere. (x)
- 16) When the amount of water decreases or water get polluted, biosphere will be affected. (√)
- 17) A river always flows from an area of low place to an area with higher place. (x)
- 18) Wells and springs obtain their water from aquifers. (√)
- 19) The amount of salt water on the Earth is smaller than the amount of fresh water. (x)
- 20) Some animals and plants live in water. (√)
- 21) The place where two oceans meet is called an estuary. (x)
- 22) Rivers and streams are freshwater moving bodies. (√)
- 23) Turning off the water tap, while washing your hair is from the ways to conserve water. (√)
- 24) We can drink the water of seas. (x)
- 25) Rivers often start in mountains in the form of estuaries. (x)
- 26) Assal lake is surrounded by land and it is a low-lying area. (√)
- 27) The type of water in lakes is salt water only. (x)
- 28) Upstream is the place where a river starts. (√)
- 29) Preservation and sustainability are ways to conserve natural resources. (√)
- 30) Placing many cows in small grass areas is considered as unsustainable situation. (√)
- 31) Recycling of wastewater means removing waste materials from it. (√)



- 32) Water is considered as a nonrenewable natural resource. (x)
- 33) Adding some of mud to clear water can pollute it. (√)
- 34) Wastewater engineers decide where to build water treatment plants. (√)
- 35) Force is the reason of motion of any body. (√)
- 36) Magnet must touch objects to attract them. (x)
- 37) The force of magnet is always attraction force only. (x)
- 38) Force of gravity can be seen easily, but we cannot see its effects. (x)
- 39) Objects are pushed away of each other due to gravity. (x)
- 40) Gravity affects the movement of objects. (√)
- 41) If two objects don't touch each other, there is no gravity between them. (x)
- 42) Small planets have bigger gravity than big planets. (x)
- 43) All planets of the solar system rotate around the Sun in one orbit only. (x)
- 44) Skydiving sport depends on gravity and air resistance. (√)
- 45) Gravity is similar to magnetism because both of them have only pulling force. (x)
- 46) Gravity affects only on the moving objects but doesn't affect the objects at rest. (x)
- 47) Gravity is the force that holds all objects in their places. (√)
- 48) The direction and mass of an object are changed due to gravity. (x)
- 49) If there is no air resistance on Earth, all objects will reach the Earth's surface at the same moment when dropping them from the same height. (√)
- 50) Heavier objects reach Earth's surface before smaller objects due to the effect of air resistance. (√)
- 51) There is no air in space, so air resistance slows down the movement of objects through space. (x)
- 52) The orbit of each planet has an ellipse shape. (√)
- 53) The Earth revolves around the Sun once every 24 hours. (x)
- 54) All parts of Earth receive sunlight at the same time. (x)

- 55) If you change your direction on Earth's surface, the Sun will rise from west. (x)
- 56) The Sun rises in the east and sets in the west. (√)
- 57) Most of stars don't appear moving in the sky. (x)
- 58) Earth revolves around the Sun in a fixed path. (√)
- 59) We can feel the movement of Earth easily. (x)
- 60) All objects on Earth's surface move with the same speed of Earth. (√)
- 61) The Sun appears in the same place in the sky all the day. (x)
- 62) Planets of the solar system rotate on their axes with different speeds. (√)
- 63) The position of the shadow of Cairo Tower will not change during the day. (x)
- 64) The Sun is the biggest star in the universe. (x)
- 65) All celestial bodies make their own light. (x)
- 66) The Sun is a medium sized star. (√)
- 67) The Sun seems smaller, because it is much farther from Earth than other stars. (x)
- 68) Superhot gases of the Sun burn producing heat and light energy. (√)
- 69) Constellations have similar shapes in the sky. (x)
- 70) The moon seems shiny because it absorbs sunlight. (x)
- 71) The moon has only one phase during the lunar month. (x)
- 72) At crescent phase, a part of the moon edge appears bright. (√)
- 73) The Sun is bigger than the moon. (√)
- 74) The atmosphere let all light waves to pass to the Earth. (x)
- 75) Planetarium has a projector to display pictures on its ceiling. (√)

**Correct the underlined words:**

- 1- The system that includes rocks and heavy metals is called hydrosphere. (geosphere)
- 2- Rainwater is a part of biosphere. (hydrosphere)
- 3- Presence of dolphins in oceans represents an interaction between hydrosphere and geosphere. (biosphere)



- 4- A spring flows out from a rock is an example of an interaction between hydrosphere and atmosphere. (geosphere)
- 5- Water can change into water vapor in extreme cold weather. (hot)
- 6- A rat that digs a barrow in the soil is an example of the interaction between biosphere and atmosphere. (geosphere)
- 7- Shallow areas of oceans don't receive sunlight. (Abyssal)
- 8- Abyssal areas of oceans contain coral reefs and intertidal zones. (Shallow)
- 9- Some animals live in bonds such as catfish, and trout. (streams)
- 10- High quality of fresh water leads to the death of marine organisms live in it. (poor)
- 11- Planets in the solar system revolve in fixed orbits due to the friction between the Sun and planets. (gravity)
- 12- The gravitational force of Earth to a person in a flying airplane is greater than it when the same person stands on the ground. (smaller)
- 13- The change of an object position is called force. (motion)
- 14- Magnetism is a kind of visible force. (invisible)
- 15- Air resistance is a type of pulling force. (pushing)
- 16- Gravity is attraction or repulsion force between two magnets or between the magnet and an object. (Magnetism)
- 17- Magnetism is the force of attraction that changes the direction of a moving object in air towards the ground. (Gravity)
- 18- All objects on Earth's surface is affected by repulsion force of gravity. (attraction)
- 19- Any object has gravity depending on its length. (mass)
- 20- Air resistance speeds up the object as it falls. (slows)
- 21- The Earth's gravity keeps all planets in their orbits. (sun)
- 22- Gravity is the attraction or pulling force that keeps all stars in their orbits around the Sun. (planets)
- 23- The Earth orbits the Sun in a rectangular path. (an oval)
- 24- The time taken by Earth to complete one rotation on its axis is called year. (day)

- 25- The Earth's axis is a real line passes through Earth's poles. (an imaginary)
- 26- Earth rotates on its axis at low speed. (high)
- 27- At the beginning of the day, the Sun appears in the west direction. (east)
- 28- In the early morning, the Sun would be above you in the center of the sky. (At noon)
- 29- Planets are celestial bodies that make their own light. (Stars)
- 30- Constellations have similar shapes in the sky. (different)
- 31- Stars are made up of hot liquids. (gases)
- 32- The moon takes one lunar year to complete one cycle around the Earth. (month)
- 33- At the gibbous phase, one edge only appears bright. (crescent)

**Give reasons for:**

- 1- Water can affect nonliving things like rocks.
  - Because water is responsible for weathering and erosion processes of rocks.
- 2- Hiding of worms inside the soil is an example of an interaction between two Earth's spheres.
  - Because worms belong to biosphere, while soil belongs to geosphere.
- 3- Importance of atmosphere for plants in making their food.
  - Because plants absorb carbon dioxide from air to make their food by photosynthesis.
- 4- Water is important for all plants on Earth.
  - Because plants depend on water to make photosynthesis and grow and some plants live in water.
- 5- Our planet looks like a blue marble from the space.
  - Because nearly three quarters (more than 71 %) of Earth is covered by water.
- 6- More than 50% of known living organisms live in the aquatic environments.
  - Because more than 71 % of Earth is covered by water.



- 7- Most of the fresh water on Earth can't be used for drinking.  
➤ Because most of fresh water on Earth found in the form of frozen water.
- 8- Not every water source is used as drinking water.  
➤ Because humans can't drink salt water.
- 9- Water that forms the hydrosphere is one of the renewable resources on Earth.  
➤ Because it can be replaced through water cycle.
- 10- No green plants can survive in the abyssal zones of oceans.  
➤ Because the abyssal zones don't receive sunlight.
- 11- We must conserve fresh water.  
➤ Because there is a limited amount of freshwater on Earth.
- 12- You should turn off water tap during brushing your teeth.  
➤ To conserve fresh water.
- 13- Groundwater is called by this name.  
➤ Because it is stored in the cracks and spaces of underground rocks.
- 14- Farms near tributaries may cause water pollution.  
➤ Due to using of chemical fertilizers.
- 15- Countries prevent using or developing natural resources in some protected areas of land.  
➤ To preserve natural resources.
- 16- Paper clips (or iron nails) are pulled toward the magnet.  
➤ Due to the force of magnetism.
- 17- When using the bicycle brake, the bicycle stops.  
➤ Due to the friction force between the brake and the tires.
- 18- The ball changes its direction after we throw it upwards.  
➤ Due to the effect of Earth's gravity that pulls objects downward.
- 19- The moon is attracted to Earth.  
(The moon stays in fixed orbit around Earth)  
➤ Due to the effect of Earth's gravity.
- 20- Gravity of Earth is greater than gravity of the moon.  
➤ Because the mass of Earth is greater than that of the moon.

**21- The astronauts float in space.**

➤ **Due to the absence of gravity.**

**22- The force of gravity has an important role in the solar system.**

➤ **Because it keeps the planets revolve around the sun in fixed orbit.**

**23- Planets revolve around the Sun in fixed orbits.**

➤ **Due to the strongest gravity of the sun.**

**24- Air resistance affects the movement of an object which falls from a height.**

➤ **Because it slows down the movement of objects.**

**25- Skydiver opens his parachute during landing.**

➤ **To slow down his speed on landing due to air resistance.**

**26- A pencil takes a longer time to reach Earth's surface than a large rock if they are thrown from the same height.**

➤ **Because the pencil is affected by more air resistance.**

**27- Occurrence of day and night.**

➤ **Due to rotation of Earth on its axis.**

**28- Half of Earth appears dark at night.**

➤ **Because it doesn't receive sunlight.**

**29- Occurrence of the four seasons.**

➤ **Due to revolution of Earth around the Sun.**

**30- The Sun appears as it moves in the sky.**

**(In the night sky, some stars seem to rise and set like the Sun.)**

➤ **Due to rotation of Earth on its axis.**

**31- Although Earth rotates on its axis, we don't feel its movement.**

➤ **Because we move with the same speed of Earth.**

**32- The length of the shadow of an object changes throughout the day.**

➤ **Due to the change in the position of the Sun in the sky.**

**33- The sun is a star.**

➤ **Because it made up of hot gases and gives out light.**

**34- The Sun looks much larger to us than other stars.**

➤ **Because it is the closest star to Earth.**



**35- The moon appears bright in the sky at night.**

➤ Because it reflects sunlight.

**36- Earth and the moon are not considered stars.**

➤ Because they can't make their own light.

**37- The moon has different phases in the night sky.**

➤ Because the moon orbits Earth and both of them orbit the sun.

**38- Atmosphere limits the using of some telescopes to see distant celestial bodies.**

➤ Because it allows some light waves to pass and block the others

### **What happens if:**

**1- People don't conserve fresh water.**

➤ The amount of freshwater on Earth will decrease.

**2- Fresh water of a river when it meets the salt water of a sea.**

➤ Estuary is formed.

**3- Water is collected in a low-lying area.**

➤ A lake is formed.

**4- The quality of fresh water becomes poor.**

➤ It may causes death and extinction of living organisms.

**5- The rate of rainfall increases on a river.**

➤ The level of water in river will increase causing flooding.

**6- A trash dump is established near a tributary that is connected with a river.**

➤ It will cause water pollution.

**7- You mix clear water with small amount of mud.**

➤ It will become polluted water.

**8- Skydiver opens his parachute during landing.**

➤ His speed will decrease gradually.

**9- The mass of the moon decreases to half.**

➤ The gravity of the moon will decrease.

**10- There is no gravity on Earth.**

➤ All objects on Earth will float off into space.

**11- The gravity of Earth is a repulsion force not an attraction force.**

➤ **All objects will move upward away from Earth's surface.**

**12- If the gravity between Earth and the moon disappears.**

➤ **The moon will float off into space.**

**13- The gravity of the Sun disappears.**

➤ **Planets will float off into space randomly.**

**14- A metal ball and a feather are fallen down from a tower.**

➤ **The metal ball will reach the ground first.**

**15- You throw two iron balls have the same mass from the same height.**

➤ **They will reach the ground at the same time.**

**16- There is no resistance and two objects with different masses are thrown from the same height.**

➤ **They will reach the ground at the same time.**

**17- Earth doesn't rotate on its axis.**

**(Earth stops spinning on its axis.)**

➤ **The cycle of day and night will not happen.**

**18- Half of Earth faces the sun.**

➤ **This part has a day.**

**19- Earth doesn't revolve around the sun.**

➤ **The cycle of seasons will not happen.**

**20- The shadow of an object if the Sun locates at east or west in the sky.**

➤ **The shadow of object will be longer.**

**21- Stars are not made up of hot gases.**

➤ **They can't make their own light.**

**22- Half of the moon faces the Sun.**

➤ **Quarter phase appear where this half will appear bright.**



Choose from column (B) what suits it in column (A)

1)

Column A	Column B
1) The word "Geo" refers to	a) water
2) The word "Hydro" refers to	b) Earth
3) The word "Atmos" refers to	c) life
4) The word "bio" refers to	d) vapor

1	2	3	4
b	a	d	c

2)

Column A	Column B
1) Oceans	a) contain fresh water or salt water
2) Lakes	b) contain salt water only.
3) Rivers	c) contain mixture of fresh water and salt water.
4) Estuary	d) contain fresh water only.
5) Groundwater	e) is the water found between pores of rocks below Earth's surface.

1	2	3	4	5
b	a	d	c	e

3)

Column A	Column B
1) A water body that often starts in the mountain as a stream.	a) Estuary
2) It is formed when a river meets a sea.	b) River
3) The large water body that is surrounded by land and formed when water collects in low-lying areas.	c) Wetland
4) The water bodies that surround the continents	d) Lake
5) It is a land area which is partially covered with water.	e) Oceans

1	2	3	4	5
b	a	d	e	c

4)

Column A	Column B
1) Trees	a) Can be used in making plastic.
2) Sustainability	b) Can be used in making paper.
3) Oil products	c) Can be used in making clothes.
4) Cotton	d) The action of control reaching of humans to the natural resources or using them.
5) Preservation	e) Using resources in a way that doesn't negatively affect the future supply of these resources.

1	2	3	4	5
<b>b</b>	<b>e</b>	<b>a</b>	<b>c</b>	<b>d</b>

5)

Column A	Column B
1) The force that arises between two objects when they touch each other.	a) Gravity
2) The force acts on all objects on Earth.	b) Contact force
3) The force between two objects that don't touch each other.	c) Friction force
4) The force opposes and slows down the movement of an object.	d) Non contact force

1	2	3	4
<b>b</b>	<b>a</b>	<b>d</b>	<b>c</b>

6)

Column A	Column B
1) Jupiter	a) is the path in which planets revolve around the Sun
2) Earth	b) is the fastest planet that rotates on its axis.
3) Orbit	c) Consists of sun and planets.
4) Solar system	d) is the planet that completes one cycle on its axis in 24 hours.
5) Cycle	e) The series of events that is repeated in the same order.

1	2	3	4	5
<b>b</b>	<b>d</b>	<b>a</b>	<b>c</b>	<b>e</b>



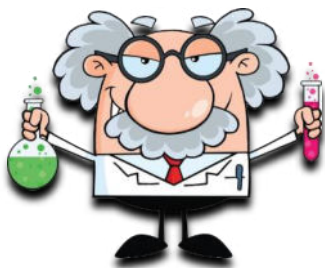
7)

Column A	Column B
1) The scientist who discovered that the Sun is the center of our solar system.	a) Galaxy
2) Tools help scientists to see distant objects in space with more details.	b) Atmosphere
3) A group of stars, planets and gases held together by gravity.	c) Copernicus
4) The wide space that contains celestial bodies as stars, galaxies, comets and meteors.	d) Galileo binoculars and Hubble space telescope
5) A protective layer around Earth that allows some light waves to pass and block the others.	e) The Universe

1	2	3	4	5
c	d	a	e	b

Cross out the odd words:

- 1- Water – carbon dioxide – oxygen – nitrogen.
- 2- Oceans – Rivers – Rocks– Lakes.
- 3- Ponds – rivers – rains – oceans.
- 4- Gulfs – seas – oceans – rivers.
- 5- Kelp – starfish – Moses fish – Frogs.
- 6- Gravity – Sun – Friction force – Magnetism.
- 7- Earth – Jupiter – The Sun – The moon.
- 8- Crescent – Full moon – Shadow – Gibbous.



# Final Revision

## Second Term



**-Choose the Correct answer from the following:**

1-Which of the following is a part of the biosphere?

a-ice      b-clouds      c-Animals      d-Water

2-All the following are from sources of water on the Earth, except.....

a-Aquifers      b-ponds      c-glaciers      d-molten rocks.

3-Prevent developing of Ras-Mohammed protectorate is considered as an example of .....

a-Preservation      b-Pollution  
c-Sustainability      c-Consumption

4-We can see thousands of ..... in the sky at night that give off heat and right.

a-moons      b-stars      c-planets      d-satellites

5- All the following materials can be used to filter wastewater in simple water filter except.....

a-cotton      b- wood      c- charcoal      d- sand

6-Presence of dolphins in oceans represents an interaction between .....

a-biosphere – hydrosphere      b-biosphere – geosphere  
c-Hydrosphere – atmosphere      d- hydrosphere – geosphere

7-At the end of Nile River Delta there is a/an ..... between Nile River and Mediterranean Sea.

a-lake      b-wetland      c-estuary      d-ocean

8-Our solar system contains .....

a-one star      b-one planet      c-one moon      d-no stars



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9-The area of land where all the water flows to a common location as ocean is called .....

a-tributary                      b-estuary                      c-wetland                      d-watershed

10-Which of the following is found between pores of rocks below Earth's surface?

a-Ice                      b-Groundwater                      c-Oceans                      d-Water vapor

11-The amount of salt water on the Earth is ..... The amount of fresh water.

a-larger than                      b-smaller than                      c-equal to                      d-half

12-We cannot send astronauts to study stars because they are .....

a-so cold                      b-faraway                      c-too small                      d-too large

13-All the following are saltwater lakes, except .....

a-lake Assal                      b-Lake Nasser  
c-Lake Idku                      d-Lake Baradawil

14-Sand, charcoal and cotton can be used to remove all the following materials from wastewater except .....

a-small pieces of plastic                      b-salt dissolve in water  
c-small particles of mud                      d- small pieces of rocks.

15-The temperature of the gases that form the sun is similar to the temperature of .....

a-the Earth                      b-the moon                      c-some planets                      d- Some stars.

16-In Egypt the cities in ..... see the sunrise before the cities in .....

a-east –west                      b-west –east                      c-North –south                      d-south – west

17-Water cycle is considered as an example of .....

a-recycling water                      b-preservation of water  
c-Overusing water                      d- Conservation of water

18-Human can use water in all the following purposes, except .....

a-fishing                      b-transportation  
c-generating electricity                      d-weathering of rocks.



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19-Constellation appear ..... In the sky during the year.

a-at different positions

b-at the same position

c-in winter only

d-in summer only

20-..... Locate at the center of our solar system.

a-the moon and the sun

b-the moon and the Earth

c-The sun only

d-The earth only

21-All the following are characteristics of abyssal zone, except .....

a-they are very deep areas

b-sunlight cannot reach it

c-they are dark areas

d-swamps and estuaries

22-Rocks are broken down into smaller particles during ..... Process.

a-photosynthesis

b-weathering

c-erosion

d-respiration

23-The sun is a star that gives out a very big amount of .....

a-heat only

b- light only

c-heat and light

d-heat and sound

24-The Earth's system which contains mountains is .....

a-atmosphere

b-geosphere

c-biosphere

d-hydrosphere

25-When water evaporates from the ocean, interaction between ..... and .....

a-atmosphere – geosphere

b-biosphere –hydrosphere

c-atmosphere – hydrosphere

d- biosphere – geosphere

26-Which sentence of the following describes the atmosphere?

a-the water and ice on the Earth.

b-The rocks and soil on the Earth.

c-The plants and animals on the Earth.

d-The gases surrounding the Earth.

27-Cats and grass are parts of the .....

a-atmosphere

b-hydrosphere

c-biosphere

d-geosphere

28-Which of the following is a part of atmosphere?

a-oxygen

b-rocks

c-fish

d-dogs

29-..... Are formed when water collects in low-lying areas.

a-Seas

b-Oceans

c-Lakes

d-Rivers



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30-Which of the following include freshwater bodies?

- a-Rivers, lakes and streams                      b-Oceans, ponds and streams  
c-Estuaries, seas and lakes.                      d- Wetlands, oceans and ponds.

31-Oil can be used in making .....

- a-paper                      b-plastic                      c-chair                      d-clothes

32-Watershed is considered as a region where all of the water in that area .....

- a-has the same type of living organisms  
b-control the wind speed and its direction  
c-is in the same country  
d-Drains into a common water body.

33-The water body which contains mixture of salt water and fresh water is the .....

- a-estuary                      b-ocean                      c- river                      d-lake

34-..... decreases the speed of a parachute during landing.

- a-Gravity force                      b-air resistance  
c-Magnetism                      d- electric force

35-The gravity of ..... affects the ocean tides.

- a- The Earth                      b-the Sun                      c-the moon                      d-the magnet

36-Gravity force depends on the ..... of an object.

- a-mass                      b-temperature                      c-height                      d-color

37-The imaginary line that passes through Earth's center is called .....

- a-the day                      b-the axis                      c-the night                      d-the pole

38-The orbiting of an object around another object is called .....

- a-revolution                      b-spinning                      c-rotation                      d-speed

39-In late afternoon, the Sun appears in the ..... direction in the sky.

- a-east                      b-west                      c-north                      d-south

40-the solar system contains .....

- a-moons day                      b-planets only  
c-Planets and the Sun                      d-Stars and planets



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41-At night we see ..... in the sky

a-the Sun and the moon

b-Earth and Sun

c-the moon and Stars

d-stars and Earth

42-The Sun forms a shorter shadow of an object.....

a-at noon

b-in the morning

c-at night

d-in the afternoon

43-A force that is created between two attached surfaces leading to slow movement is called ..... force.

a-pushing

b-dragging

c-friction

d-pulling

44-..... locates at the center of our solar system.

a-The moon

b-The sun

c-The Earth

d-Moon and Sun

45-Among animals that can be found in ponds are ..... and .....

a-lions - salamanders

b-dogs- frogs

c-frogs - Salamander

d-foxes - bears

46-Microorganisms are part of .....

a-atmosphere

b-biosphere

c-hydrosphere

d-geosphere

47-Among the sources of water which human can use for drinking .....

a-seas

b-oceans

c-saltwater lakes

d-rivers

48-The force of ..... keeps the planets on their paths around the Sun.

a-air resistance

b-friction

c-gravity

d-electricity

49-Coral reefs live in ..... of aquatic ecosystem.

a-frozen areas

b-abyssal zones

c-fresh water

d-shallow areas

50-The friction force between objects usually acts on slowing down their motion this is because that force .....

a-acts in the same direction of their motion

b-acts with their motion in their strength and direction

c-acts in opposite direction to their motion

d-increases their motion in the opposite direction

51-..... are celestial bodies that can make their own light.

a-stars only

b-Moons and stars

c-Earth and Moons

d-Earth and stars

52-A person can exert a weak force to move.....

a-a big truck

b-a real car

c-a very big rock

d-a toy car



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53-96.5% of the Earth's water is ..... water.

a-salt                      b-boiling                      c-fresh                      d-frozen

54-..... is the fastest planet during its rotation on its axis.

a-Jupiter                      b-Mercury                      c-Earth

55-Two magnets move away from each other when there is ..... force between them.

a-gravitational                      b-repulsion                      c-contact                      d-pulling

56-Kelp that lives in oceans and seas, is an example of the interaction between ..... and .....

a-geosphere - biosphere                      b-geosphere - hydrosphere  
c-biosphere - hydrosphere                      d-atmosphere - hydrosphere

57-Rivers and streams contain ..... water, while ponds contain ..... water.

a-salt - fresh                      b-fresh - salt  
c-running - still                      d-still -running

58-Water is a renewable source because it has .....

a-water cycle                      b-salts                      c-clouds                      d-oxygen gas

59-Most of heat and light energy of the Sun are produced due to the reaction between .....

a-hydrogen rocks                      b-hydrogen and helium                      c-  
helium and sand                      d-rock and sand

60-..... is a water body that flows from high place to a low place.

a-River                      b-Sea                      c-Lake                      d-Ocean

### Complete the following sentences:

1-A rat digs a barrow in the soil is an example of the interaction between biosphere and .....

2-The direction of Earth's gravity is always toward .....of Earth.

3-The land that is partially covered with water is called.....

4-Any object has ..... depending on its mass.

5-In high dam, water is used to generate .....

6-The run out of ..... causes wells to become dry.



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- 7-The protective layer around the Earth that allows some light waves to pass and block others, is known as .....
- 8-Water runs across the land is an example of an interaction between ..... and geosphere.
- 9-Planets revolve around the sun in ..... Orbits.
- 10-The ceiling of planetarium has ..... shape.
- 11-When a river meets a sea, an ..... is formed.
- 12-The Earth spins around its axis once every .....
- 13-We must take a quick shower to conserve .....
- 14-Wastewater engineers design ways to protect communities from .....
- 15-The moon's phases are repeated every .....
- 16-The force of gravity is always ..... force.
- 17-The large sheet of ice or snow that moves slowly over Earth's surface is known as .....
- 18-The force that oppose the movement of objects as they pass through air is called.....
- 19-To conserve water, we can ..... the time of washing our hands.
- 20-The force that slows down the movement of objects across solids, liquids or gases is called .....
- 21-Among the sources of fresh water on Earth are .....
- 22-When a girl moves down a slide, this is due the force of.....
- 23-Without the force of gravity, the moon would ..... off into space.
- 24-Earth is pulling the moon, keeping it in its ..... around Earth.
- 25-The amount of ..... will be scarce, if forests are cut down faster than they can grow.
- 26-Magnetism is a force that attracts ..... objects.
- 27-The energy which plays an important role in water cycle is ..... energy
- 28-The amount of fresh water on Earth is ..... than the amount of salt water.
- 29-The half of the Earth that doesn't receive any light has .....
- 30-Force may be push or ..... The object to make it move.
- 31-Some human activities may cause water ..... that leads to drought or flooding of water bodies.
- 32-If the fossil fuels wisely without negative affect their amount in future, this is called .....
- 33-Water is responsible for weathering and ..... of rocks.





- 34-Abyssal zone in the ocean is a dark area as ..... cannot reach it.
- 35-Rivers and streams contain ..... water, which represents about ..... of the total amount of water on Earth.
- 36-The place where a river ends is called .....
- 37-Oceans and seas contain ..... water, which represents ..... of the total amount of water on Earth.
- 38-Plastic ruler can be made from ..... products.
- 39-..... is from factors that affects the resource sustainability.
- 40-Groundwater is replaced by .....
- 41-To conserve water, we can ..... the time of washing our hands.
- 42-The Earth's sphere that contains rocks, sand and soil is known as .....
- 43-The type of water that is found in rivers, most of lakes and streams is a ..... Water.
- 44-Human can ..... water to cycle wastewater to be used again.
- 45-The force rises between two objects that touch each other is called .....
- 46-The occurrence of attraction or repulsion forces between magnets is due to ..... in both of them.
- 47-Earth pulls objects by the force of .....
- 48-When the mass of the Earth ..... Its attraction force increases.
- 49-Gravity force of ..... helps the planets to move in fixed orbits.
- 50-Skydivers opens his ..... While he falls down toward Earth.
- 51-If the mass of the moon increases than its real mass, its gravitational attraction will .....
- 52-Magnet can attract some objects by a force called.....
- 53-A parachute in air is affected by ..... that acts against the ..... force of Earth.
- 54-The Sun locates at the center of .....
- 55-Occurrence of day and night is due to the rotation of ..... On its .....
- 56-Earth completes one rotation on its axis once every .....
- 57-In the early morning, the Sun appears in ..... while at noon it appears in .....
- 58-Planets revolve around .....in fixed .....
- 59-When a river meets a sea an ..... is formed.
- 60-Season phenomenon occurs due to the ..... of Earth around the .....



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61-..... covers 3.5% of water on Earth.

62-The group of stars that make a certain shape in the sky is called.....

63-The sun is a ..... sized star.

64-Moses fish live in ..... water.

### **Put true or false:**

1-Rivers and streams are freshwater moving bodies. ( )

2-The water of tributaries flow directly into seas and oceans. ( )

3-All parts of Earth receive sunlight at the same time. ( )

4-Earth revolves around the sun in a fixed path. ( )

5-Wastewater engineers are scientists who work on recycling wastewater in water treatment plants. ( )

6-The atmosphere let's all light waves to pass to the Earth. ( )

7-Cotton can be used as a filter to remove waste materials from water. ( )

8-If there is no hydrosphere, the biosphere will not exist. ( )

9-We can observe the Sun and the moon at night. ( )

10-All objects on Earth's surface is affected by magnetism force. ( )

11-At the beginning of the day, the Sun appears in the west direction. ( )

12-Our solar system contains eight planets. ( )

13-Wells and springs obtain their water from aquifers. ( )

14-Placing cows in many small grass areas is considered as sustainable situation. ( )

15-Any object on Earth's surface is affected by repulsion force of gravity. ( )

16-Some human activities are responsible for water pollution. ( )

17-The orbit of each planet has an elliptical shape. ( )

18-All people in different countries see the stars in the sky at the same time. ( )

19-Building factories is from human strategies to control and conserve fresh water. ( )

20-Without water, all forms of life will disappear. ( )

21-Superhot gases of the sun burn producing heat and light energies. ( )

22-There are no living organisms live in the hydrosphere. ( )



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- 23-Earth's revolution around the Sun causes day and night phenomenon. ( )
- 24-Oceans, lakes, and rivers are included in the hydrosphere.
- 25-Waterfalls are part of atmosphere. ( )
- 26-Atmosphere and hydrosphere affect water cycle. ( )
- 27-There is an interaction between hydrosphere and geosphere when floods move soil and rocks to new places. ( )
- 28-The sun plays an important role in water cycle. ( )
- 29-A glacier contains mixture of fresh water and salt water. ( )
- 30-Sharks in water is an example of an interaction between biosphere and geosphere. ( )
- 31-Both ponds and streams contain salt water. ( )
- 32-The sand in deserts is a part of geosphere. ( )
- 33-The Earth's system which contains sand and rocks is the geosphere. ( )
- 34-Lakes have fresh water only. ( )
- 35-All living organisms need water to survive. ( )
- 36-You should drink more water instead of juice to conserve water. ( )
- 37-Generating electricity is from the uses of water. ( )
- 38-Building dams across rivers is from human activities which cause imbalance of water. ( )
- 39-More than 10% of the world's animal species live only in freshwater habitats. ( )
- 40-When fresh water is polluted, it becomes drinkable. ( )
- 41-Recycling of polluted water means removing useful materials from water. ( )
- 42-Earth pulls planets to orbit the Sun. ( )
- 43-Length of shadows of different objects don't change during day. ( )
- 44-Air resistance is a factor that speeds up the falling objects towards the Earth. ( )
- 45-Stars are solid objects made up of rocks. ( )
- 46-Starfish and flounder fish are live in oceans. ( )
- 47-The sun is the biggest star in the universe. ( )



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- 48-The rotation of Earth around the sun causes day and night phenomenon. ( )
- 49-Some ponds and lakes may dry up in winter months. ( )
- 50-We can feel the movement of the Earth easily. ( )
- 51-The magnet can exert a pulling force only. ( )
- 52-The Earth takes 12 hours to make a complete cycle on its axis. ( )
- 53-Fresh water forms 55% of hydrosphere. ( )
- 54-The Earth revolves around its axis at a speed nearly equals 107000 km/hr.( )
- 55-Weathering rocks by rains is an example of interaction between hydrosphere and biosphere. ( )
- 56-Constellations have similar shapes in the sky. ( )
- 57-Oceans contain large amount of fresh water. ( )
- 58-Gravity is a push force that causes the moving object to move. ( )
- 59-Jupiter is the fastest planet that rotates on its axis in the solar system. ( )
- 60-Rocks are parts of the geosphere. ( )

### **Write the scientific term:**

- 1-The action of control reaching of humans to the natural resources or using them. (.....)
- 2-They are giant spheres of superhot gases most of them are hydrogen and helium. (.....)
- 3-A dark object that revolves around Earth and reflects the sunlight falling on its surface. (.....)
- 4-The force of attraction that changes the direction of a moving object in air towards the ground. (.....)
- 5-An imaginary line that passes through the two poles of Earth.(.....)
- 6-The Sun and eight planets revolving around it. (.....)
- 7-It is a group of stars, planets and gases held together by gravity. (.....)
- 8-The law which states that the force of gravity is constant and acts on all object in the same way. (.....)
- 9-The orbiting of Earth around the Sun. (.....)



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- 10-The dark celestial bodies that revolve around the Sun in fixed orbit.  
(.....)
- 11-Areas of the ocean which contain coral reefs and intertidal zones.  
(.....)
- 12-It is an area of land where all the water flows to a common location usually an ocean, a sea or other large water bodies. (.....)
- 13-It is a medium-sized star that provides Earth with heat and light.  
(.....)
- 14-The water bodies that surround the continent. (.....)
- 15-An invisible force that attracts metal objects to the magnet. (.....)
- 16-A cycle shows the continuous movement of water from the Earth to the atmosphere then to the Earth again. (.....)
- 22-The system of Earth which contains all different land forms. (.....)
- 17-The area of the coast that disappears underwater at the high tide and appears at the low tide. (.....)
- 18-The type of water which is found in seas and oceans. (.....)
- 19-The land which is partially covered with water. (.....)
- 20-The water body that is formed when a river meets a sea. (.....)
- 21-A type of water which is suitable for drinking. (.....)
- 22-A water body that often starts in the mountain as a stream. (.....)
- 23-The force that attracts paper clips to the magnet. (.....)
- 24-The force that pulls all objects on Earth toward its center. (.....)
- 25-The force that slows down the movement of objects through air. (.....)
- 26-A phenomenon takes place in oceans and seas due to the gravity of the moon. (.....)
- 27-Constellation appears in the sky as a mythical hunter. (.....)
- 28-The type of movement during the spinning of Earth around itself.  
(.....)
- 29-A group of stars that make a certain shape in the sky. (.....)
- 30-The moon phase at which moon seems completely bright.(.....)



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- 31-A special building with dome ceiling and used to see images of celestial bodies. (.....).
- 32-A large body of water that surrounded by land.
- 33-The effect of pulls or pushes an object to make it move.
- 34-They are giant spheres of superhot gases.
- 35-The system that includes all living organisms.
- 36-The large area of the world that has similar soil, climate, plants and wildlife.
- 37-An imaginary line passing through the Earth from the north pole to the south pole.
- 38-The system which contains animals and plants.

**-Give Reasons for:**

1-Water is important for all plants on Earth.

.....

.....

2-Water can affect nonliving things like rocks.

.....

.....

3-Our planet looks like a blue marble from the space.

.....

.....

4-Water that forms the hydrosphere is one of the renewable resources on Earth.

.....

.....

5-Importance of atmosphere for plant in making their food.

.....

.....

6-Most of the fresh water on Earth can't be used for drinking.

.....

.....



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7-Some ponds and lakes may dry up during some months.

8-No green plants can survive in the abyssal zones of oceans.

9-Mosquitoes lay their eggs in ponds.

10-We must conserve fresh water.

11-You should turn off water tap during brushing your teeth.

12-Groundwater is called by this name.

13-The quality of fresh water affects the life of living organisms live in it.

14-Scientists tend to preserve freshwater sources on Earth.

15-Farms near tributaries may cause water pollution.

16-Countries prevent using or developing natural resources in some protected areas of land.



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17-Wastewater engineers test the treated water.

18-The gravity between two objects is affected by the distance between them.

19-The force of gravity has an important role in the solar system.

20-Paper clips are pulled toward the magnet.

21-The ball changes its direction after we throw it upward.

22-Gravity of Earth is greater than gravity of the moon.

23-You always land to the ground when you jump up.

24-Skydiver opens his parachute during landing.

25-When you press the bicycle brake, its speed will stop moving after few seconds.

26-Some iron nails are attracted to a magnet.



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27-Air resistance affects the movement of an object which falls from a height.

28-Planets revolve around the sun in fixed orbits.

29-Occurrence of day and night.

30-Half of Earth appears dark at night.

31-The Sun appears as it moves across the sky.

32-Occurrence of seasons.

33-Occurrence of different sunrise and sunset times each day on Earth.

35-Although Earth rotates on its axis, we don't feel its movement.

36-The length of the shadow of an object changes throughout the day.

37-In the night sky, some stars seem to rise and set like the Sun.



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38-Stars seem to move in the sky.

.....  
.....

39-The moon appears bright in the sky at night.

.....  
.....

40-If we are travelling in desert, stars may help us to determine our correct way across the desert.

.....  
.....

41-The moon is a dark body, but we see it shiny at night.

.....  
.....

42-Earth and the moon are not considered stars.

.....  
.....

43-The moon has different phases in the night sky.

.....  
.....

44-The sun looks much larger to us than other stars.

.....  
.....

45-Atmosphere limits the using of some telescopes to see distant celestial bodies.

.....  
.....

46-Stars appear bright in the sky at night.

.....  
.....

47-The moon is attracted to the Earth.

.....  
.....



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48-Gravitational force depends on the distance.

**-What happens if:**

1-A river meets the salt water of a sea.

2-Plants cannot get carbon dioxide gas from air.

3-People don't conserve fresh water.

4-Water is collected in a low lying area.

5-The quality of fresh water becomes poor.

6-The rate of rainfall increases on rivers.

7-A trash dump is established near a tributary that is connected with a river.

8-The distance between the moon and Earth increases to twice.

9-The mass of the moon decreases to half.



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10-There is no gravity on Earth.

11-The gravity of Earth is a repulsion force not an attraction force.

12-The gravity between two bodies when their masses decreases.

13-A metal ball and a feather are fallen down from a tower.

14-You throw two iron balls have the same mass from the same height.

15-There is no air resistance and two objects with different masses are thrown from the same height.

16-The Earth doesn't rotate on its axis.

17-Half of Earth faces the sun.

18-Earth complete its spinning on its axis in 12 hours only.

19-Earth's axis is not tilted.



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20-Stars are not made up of hot gases.

21-Sunlight falls on the moon's surface.

22-Half of the moon faces the Sun.

23-The mass of the sun decreases than it is now.

24-You throw a ball into air.

25-The gravity of the sun disappear (relative to planets).

26-The Earth rotates on its axis.

### Variant Questions:

(A) Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Geosphere	a. contains oxygen and nitrogen gases.
2. Atmosphere	b. contains rocks and sand.
3. Biosphere	c. contains fresh water and salt water.
4. Hydrosphere	d. contains animals and plants.
	e. contains clouds and molten rocks.

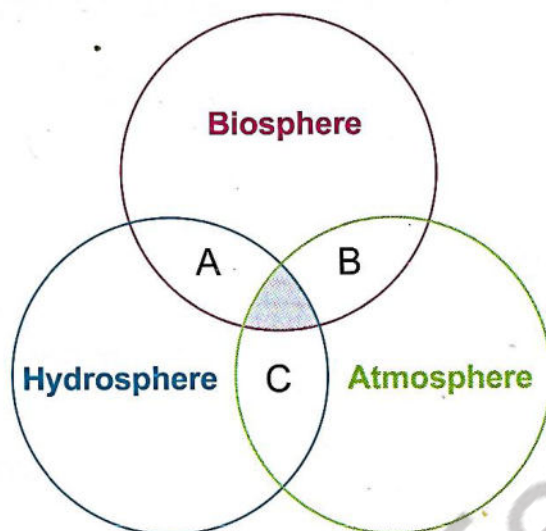
1. ....

2. ....

3. ....

4. ....

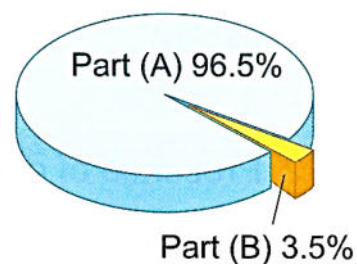
(B) The following model shows a diagram containing three interacted Earth's spheres. Read these sentences, then put (✓) or (X) :



1. Area (B) can represent a student respire in oxygen gas. ( )
2. Area (A) can represent small rocks in an ocean. ( )
3. Area (C) can represent evaporation of sea water forming clouds and falling of rains. ( )

(B) Look at the opposite graph, then complete the sentences below :

1. Part ..... represents fresh water, while part ..... represents salt water.
2. The type of water which human can drink, is represented by part .....
3. An ocean is an example of water bodies which are included in part .....



(A) Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Cotton	a. can be used in making plastic.
2. Oil products	b. can be used in making paper.
3. Trees	c. can be used in making clothes.
	d. can be used in making cans.

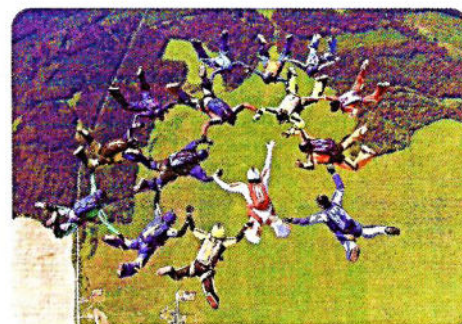
1. ....

2. ....

3. ....



**(B) Look at the opposite figure, then choose the correct answer from those between brackets :**



- The force that causes skydivers to move down is called .....  
(gravity of Earth – gravity of moon – gravity of Sun)
- When skydivers open their parachuts they are attracted to .....  
(Earth's center – moon's surface – the sky)

**(B) Imagine that jar (A) contains air while jar (B) doesn't contain air. Choose the correct answer :**

- The two bodies in jar (A) are affected by .....  
a. gravity force only.  
b. friction force only.  
c. air resistance and gravity.  
d. gravity and electricity.
- The two bodies in jar (B) are affected by .....  
a. gravity force only.      b. air resistance only.  
c. air resistance and gravity.      d. gravity and electricity.
- In jar (A), the rock reaches faster than the feather because it has .....  
a. higher surface area.      b. higher temperature.  
c. less mass.      d. lower surface area.



Jar (A)



Jar (B)

**(A) Choose from column (B) what suits it in columns (A) :**

(A)	(B)
1. The word "Geo" refers to	a. Water
2. The word "Hydro" refers to	b. Earth
3. The word "Atoms" refers to	c. Life
4. The word "bio" refers to	d. Vapor
	e. Sun

1. ....

2. ....

3. ....

4. ....

**(B) The opposite figure illustrate one of the famous constellations :**

1. The name of this constellation is .....

(Orion – Leo)

and it looks like a .....

(horse – hunter)

2. This constellation consists of a group of .....

(planets – stars)

3. The position of this constellation seems to appear at different locations due to .....

(Earth's rotation on its axis – Earth's revolution around the Sun)



**(B) Choose from column (B) what suits it in column (A) :**

(A)	(B)
1. Jupiter	a. is a human-made satellite.
2. International Space Station	b. is the center of the solar system.
3. Earth	c. is the fastest rotating planet that rotates on its axis.
4. The Sun	d. is the planet that completes one cycle on its axis in 24 hours.
	e. is the path in which planets revolve around the Sun.

1. ....

2. ....

3. ....

4. ....



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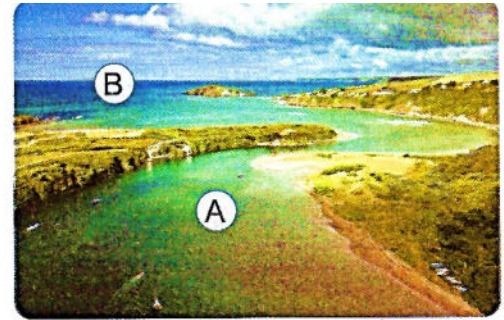
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(A) Look at the opposite picture, in which area (A) shows a river and area (B) shows an ocean, then choose the correct answer.



- Water lilies can be found in .....  
 a. area (A).                      b. area (B).  
 c. both area (A) and area (B).    d. neither area (A) nor area (B).
- All the following organisms can be found in area (B), except .....  
 a. dolphin.      b. starfish.      c. flounder fish.      d. frog.

(B) Look at the following figures then answer the following questions below :

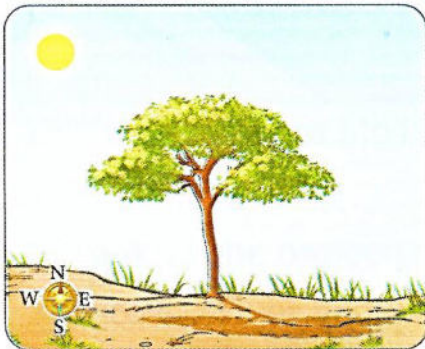


Figure (A)

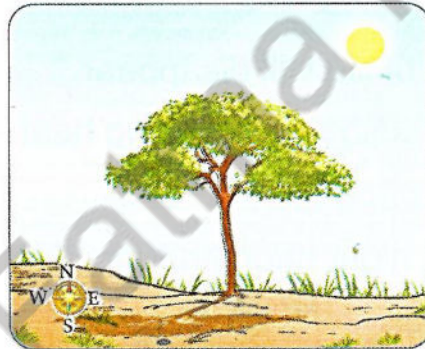


Figure (B)

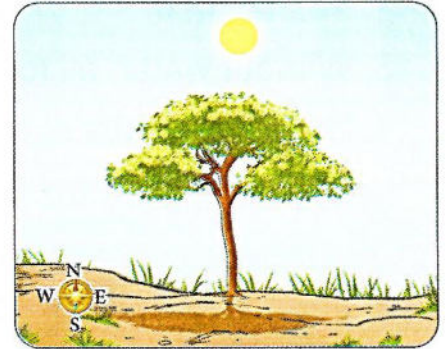


Figure (C)

- The shadow of the tree will be longer at .....  
 a. figure (A) only.                      b. figure (C) only.  
 c. figure (B) and figure (C).        d. figure (A) and figure (B).
- The time at which figure (C) illustrates is .....  
 a. 12 p.m.      b. 10 a.m.      c. 2 a.m.      d. 3 p.m.
- At noon the Sun is located above us during its movement that can be represented by .....  
 a. figure (A) only.                      b. figure (C) only.  
 c. figure (B) and figure (C).        d. figure (A) and figure (B).

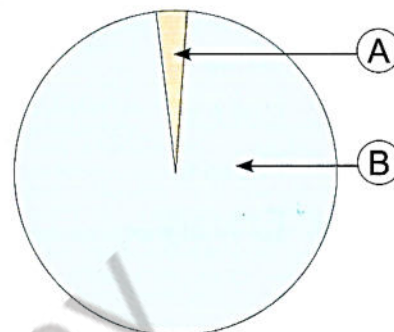


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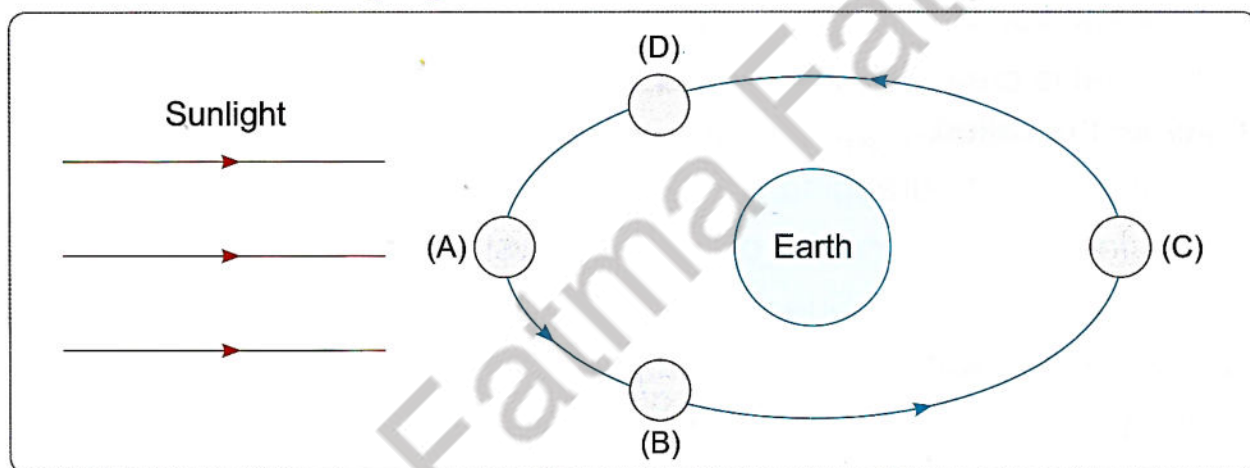


**(A) Look at the opposite graph that shows the percentage of both salt water and fresh water in Earth's hydrosphere, then put (✓) or (✗) :**

1. Area (A) represents salt water. ( )
2. Seas and oceans are examples of water bodies that belong to area (B). ( )
3. During water cycle, water evaporates from both areas (A) and (B). ( )
4. The type of water in rivers belongs to area (A). ( )



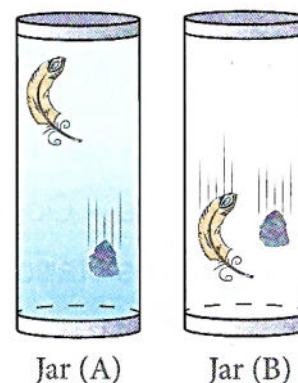
**(B) Look at the following figure then choose the correct answer :**



1. The celestial body that revolves around Earth in this figure is .....  
(the moon – the Sun – Jupiter)
2. The moon phase at position (A) is .....  
(full moon – new moon – crescent)
3. The moon phase at position (C) is .....  
(full moon – new moon – crescent)

**(B) Imagine that jar (A) contains air, while jar (B) doesn't contain air.**

1. The two bodies in jar (A) are affected by .....  
(gravity only – air resistance and gravity)
2. The two bodies in jar (B) are affected by .....  
(gravity only – air resistance and gravity)





(A) Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Dolphin 2. Salmon 3. Oil products 4. Cotton	a. can be used in making plastic. b. lives in fresh water. c. lives in salt water. d. can be used in making cans. e. can be used in making clothes.

1. ....

2. ....

3. ....

4. ....



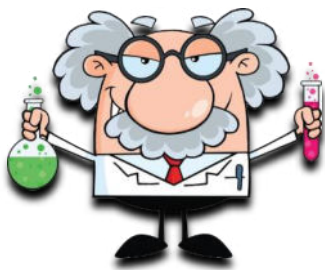
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# Final Revision

## Second Term



**-Choose the Correct answer from the following:**

1-Which of the following is a part of the biosphere?

a-ice      b-clouds      **c-Animals**      d-Water

2-All the following are from sources of water on the Earth, except.....

a-Aquifers      b-ponds      c-glaciers      **d-molten rocks.**

3-Prevent developing of Ras-Mohammed protectorate is considered as an example of .....

**a-Preservation**      b-Pollution  
c-Sustainability      c-Consumption

4-We can see thousands of ..... in the sky at night that give off heat and right.

a-moons      **b-stars**      c-planets      d-satellites

5- All the following materials can be used to filter wastewater in simple water filter except.....

a-cotton      **b- wood**      c- charcoal      d- sand

6-Presence of dolphins in oceans represents an interaction between .....

**a-biosphere – hydrosphere**      b-biosphere – geosphere  
c-Hydrosphere – atmosphere      d- hydrosphere – geosphere

7-At the end of Nile River Delta there is a/an ..... between Nile River and Mediterranean Sea.

a-lake      b-wetland      **c-estuary**      d-ocean

8-Our solar system contains .....

**a-one star**      b-one planet      c-one moon      d-no stars



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9-The area of land where all the water flows to a common location as ocean is called .....

a-tributary      b-estuary      c-wetland      d-watershed

10-Which of the following is found between pores of rocks below Earth's surface?

a-Ice      b-Groundwater      c-Oceans      d-Water vapor

11-The amount of salt water on the Earth is ..... The amount of fresh water.

a-larger than      b-smaller than      c-equal to      d-half

12-We cannot send astronauts to study stars because they are .....

a-so cold      b-faraway      c-too small      d-too large

13-All the following are saltwater lakes, except .....

a-lake Assal      b-Lake Nasser  
c-Lake Idku      d-Lake Baradawil

14-Sand, charcoal and cotton can be used to remove all the following materials from wastewater except .....

a-small pieces of plastic      b-salt dissolve in water  
c-small particles of mud      d- small pieces of rocks.

15-The temperature of the gases that form the sun is similar to the temperature of .....

a-the Earth      b-the moon      c-some planets      d- Some stars.

16-In Egypt the cities in ..... see the sunrise before the cities in .....

a-east -west      b-west -east      c-North -south      d-south - west

17-Water cycle is considered as an example of .....

a-recycling water      b-preservation of water  
c-Overusing water      d- Conservation of water

18-Human can use water in all the following purposes, except .....

a-fishing      b-transportation  
c-generating electricity      d-weathering of rocks.



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19-Constellation appear ..... In the sky during the year.

a-at different positions

b-at the same position

c-in winter only

d-in summer only

20-..... Locate at the center of our solar system.

a-the moon and the sun

b-the moon and the Earth

c-The sun only

d-The earth only

21-All the following are characteristics of abyssal zone, except .....

a-they are very deep areas

b-sunlight cannot reach it

c-they are dark areas

d-swamps and estuaries

22-Rocks are broken down into smaller particles during ..... Process.

a-photosynthesis

b-weathering

c-erosion

d-respiration

23-The sun is a star that gives out a very big amount of .....

a-heat only

b- light only

c-heat and light

d-heat and sound

24-The Earth's system which contains mountains is .....

a-atmosphere

b-geosphere

c-biosphere

d-hydrosphere

25-When water evaporates from the ocean, interaction between ..... and .....

a-atmosphere – geosphere

b-biosphere –hydrosphere

c-atmosphere – hydrosphere

d- biosphere – geosphere

26-Which sentence of the following describes the atmosphere?

a-the water and ice on the Earth.

b-The rocks and soil on the Earth.

c-The plants and animals on the Earth.

d-The gases surrounding the Earth.

27-Cats and grass are parts of the .....

a-atmosphere

b-hydrosphere

c-biosphere

d-geosphere

28-Which of the following is a part of atmosphere?

a-oxygen

b-rocks

c-fish

d-dogs

29-..... Are formed when water collects in low-lying areas.

a-Seas

b-Oceans

c-Lakes

d-Rivers



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30-Which of the following include freshwater bodies?

a-Rivers, lakes and streams

b-Oceans, ponds and streams

c-Estuaries, seas and lakes.

d- Wetlands, oceans and ponds.

31-Oil can be used in making .....

a-paper

b-plastic

c-chair

d-clothes

32-Watershed is considered as a region where all of the water in that area .....

a-has the same type of living organisms

b-control the wind speed and its direction

c-is in the same country

d-Drains into a common water body.

33-The water body which contains mixture of salt water and fresh water is the .....

a-estuary

b-ocean

c- river

d-lake

34-..... decreases the speed of a parachute during landing.

a-Gravity force

b-air resistance

c-Magnetism

d- electric force

35-The gravity of ..... affects the ocean tides.

a- The Earth

b-the Sun

c-the moon

d-the magnet

36-Gravity force depends on the ..... of an object.

a-mass

b-temperature

c-height

d-color

37-The imaginary line that passes through Earth's center is called .....

a-the day

b-the axis

c-the night

d-the pole

38-The orbiting of an object around another object is called .....

a-revolution

b-spinning

c-rotation

d-speed

39-In late afternoon, the Sun appears in the ..... direction in the sky.

a-east

b-west

c-north

d-south

40-the solar system contains .....

a-moons day

b-planets only

c-Planets and the Sun

d-Stars and planets



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41-At night we see ..... in the sky

a-the Sun and the moon

b-Earth and Sun

c-the moon and Stars

d-stars and Earth

42-The Sun forms a shorter shadow of an object.....

a-at noon

b-in the morning

c-at night

d-in the afternoon

43-A force that is created between two attached surfaces leading to slow movement is called ..... force.

a-pushing

b-dragging

c-friction

d-pulling

44-..... locates at the center of our solar system.

a-The moon

b-The sun

c-The Earth

d-Moon and Sun

45-Among animals that can be found in ponds are ..... and .....

a-lions - salamanders

b-dogs- frogs

c-frogs - Salamander

d-foxes - bears

46-Microorganisms are part of .....

a-atmosphere

b-biosphere

c-hydrosphere

d-geosphere

47-Among the sources of water which human can use for drinking .....

a-seas

b-oceans

c-saltwater lakes

d-rivers

48-The force of ..... keeps the planets on their paths around the Sun.

a-air resistance

b-friction

c-gravity

d-electricity

49-Coral reefs live in ..... of aquatic ecosystem.

a-frozen areas

b-abyssal zones

c-fresh water

d-shallow areas

50-The friction force between objects usually acts on slowing down their motion this is because that force .....

a-acts in the same direction of their motion

b-acts with their motion in their strength and direction

c-acts in opposite direction to their motion

d-increases their motion in the opposite direction

51-..... are celestial bodies that can make their own light.

a-stars only

b-Moons and stars

c-Earth and Moons

d-Earth and stars

52-A person can exert a weak force to move.....

a-a big truck

b-a real car

c-a very big rock

d-a toy car



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53-96.5% of the Earth's water is ..... water.

**a-salt**                      b-boiling                      c-fresh                      d-frozen

54-..... is the fastest planet during its rotation on its axis.

**a-Jupiter**                      b-Mercury                      c-Earth

55-Two magnets move away from each other when there is ..... force between them.

**a-gravitational**                      **b-repulsion**                      c-contact                      d-pulling

56-Kelp that lives in oceans and seas, is an example of the interaction between ..... and .....

**a-geosphere - biosphere**                      b-geosphere - hydrosphere  
**c-biosphere - hydrosphere**                      d-atmosphere - hydrosphere

57-Rivers and streams contain ..... water, while ponds contain ..... water.

**a-salt - fresh**                      b-fresh - salt  
**c-running - still**                      d-still -running

58-Water is a renewable source because it has .....

**a-water cycle**                      b-salts                      c-clouds                      d-oxygen gas

59-Most of heat and light energy of the Sun are produced due to the reaction between .....

**a-hydrogen rocks**                      **b-hydrogen and helium**  
**c-helium and sand**                      d-rock and sand

60-..... is a water body that flows from high place to a low place.

**a-River**                      b-Sea                      c-Lake                      d-Ocean

### **Complete the following sentences:**

1-A rat digs a barrow in the soil is an example of the interaction between biosphere and **geosphere**

2-The direction of Earth's gravity is always toward **center** of Earth.

3-The land that is partially covered with water is called **wetland**.

4-Any object has **gravity** depending on its mass.

5-In high dam, water is used to generate **electricity**.

6-The run out of **groundwater** causes wells to become dry.



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- 7-The protective layer around the Earth that allows some light waves to pass and block others, is known as atmosphere.
- 8-Water runs across the land is an example of an interaction between hydrosphere and geosphere.
- 9-Planets revolve around the sun in fixed Orbits.
- 10-The ceiling of planetarium has dome shape.
- 11-When a river meets a sea, an estuary is formed.
- 12-The Earth spins around its axis once every 24-hours (day)
- 13-We must take a quick shower to conserve fresh water.
- 14-Wastewater engineers design ways to protect communities from floods
- 15-The moon's phases are repeated every one lunar month.
- 16-The force of gravity is always attraction or pulling force.
- 17-The large sheet of ice or snow that moves slowly over Earth's surface is known as glacier
- 18-The force that oppose the movement of objects as they pass through air is called air resistance
- 19-To conserve water, we can decrease the time of washing our hands.
- 20-The force that slows down the movement of objects across solids, liquids or gases is called friction force.
- 21-Among the sources of fresh water on Earth are lakes, rivers and ponds.
- 22-When a girl moves down a slide, this is due the force of Earth's gravity.
- 23-Without the force of gravity, the moon would float off into space.
- 24-Earth is pulling the moon, keeping it in its orbit around Earth.
- 25-The amount of trees will be scarce, if forests are cut down faster than they can grow.
- 26-Magnetism is a force that attracts metal objects.
- 27-The energy which plays an important role in water cycle is thermal energy
- 28-The amount of fresh water on Earth is less than the amount of salt water.
- 29-The half of the Earth that doesn't receive any light has night.
- 30-Force may be push or pull the object to make it move.
- 31-Some human activities may cause water imbalance that leads to drought or flooding of water bodies.
- 32-If the fossil fuels wisely without negative affect their amount in future, this is called sustainability
- 33-Water is responsible for weathering and erosion of rocks.



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- 34-Abyssal zone in the ocean is a dark area as sunlight cannot reach it.
- 35-Rivers and streams contain fresh water, which represents about 3.5% of the total amount of water on Earth.
- 36-The place where a river ends is called estuary
- 37-Oceans and seas contain salt water, which represents 96.5% of the total amount of water on Earth.
- 38-Plastic ruler can be made from oil products.
- 39-Overpopulation or pollution is from factors that affects the resource sustainability.
- 40-Groundwater is replaced by rain
- 41-To conserve water, we can decrease the time of washing our hands.
- 42-The Earth's sphere that contains rocks, sand and soil is known as geosphere.
- 43-The type of water that is found in rivers, most of lakes and streams is a fresh water.
- 44-Human can filter water to cycle wastewater to be used again.
- 45-The force rises between two objects that touch each other is called friction force.
- 46-The occurrence of attraction or repulsion forces between magnets is due to magnetism in both of them.
- 47-Earth pulls objects by the force of gravity.
- 48-When the mass of the Earth increases Its attraction force increases.
- 49-Gravity force of sun helps the planets to move in fixed orbits.
- 50-Skydivers opens his parachute while he falls down toward Earth.
- 51-If the mass of the moon increases than its real mass, its gravitational attraction will increase
- 52-Magnet can attract some objects by a force called magnetism
- 53-A parachute in air is affected by air resistance that acts against the gravity force of Earth.
- 54-The Sun locates at the center of solar system
- 55-Occurrence of day and night is due to the rotation of Earth on its axis.
- 56-Earth completes one rotation on its axis once every 24-hours
- 57-In the early morning, the Sun appears in the east while at noon it appears in North.
- 58-Planets revolve around sun in fixed orbits
- 59-When a river meets a sea an estuary is formed.



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- 60-Season phenomenon occurs due to the revolution of Earth around the sun.  
61-Fresh water covers 3.5% of water on Earth.  
62-The group of stars that make a certain shape in the sky is called constellation  
63-The sun is a medium sized star.  
64-Moses fish live in salt water.

### Put true or false:

- 1-Rivers and streams are freshwater moving bodies. ( ✓ )  
2-The water of tributaries flow directly into seas and oceans. ( ✗ )  
3-All parts of Earth receive sunlight at the same time. ( ✗ )  
4-Earth revolves around the sun in a fixed path. ( ✓ )  
5-Wastewater engineers are scientists who work on recycling wastewater in water treatment plants. ( ✓ )  
6-The atmosphere let's all light waves to pass to the Earth. ( ✗ )  
7-Cotton can be used as a filter to remove waste materials from water. ( ✓ )  
8-If there is no hydrosphere, the biosphere will not exist. ( ✓ )  
9-We can observe the Sun and the moon at night. ( ✗ )  
10-All objects on Earth's surface is affected by magnetism force. ( ✗ ) ( )  
11-At the beginning of the day, the Sun appears in the west direction. ( ✗ )  
12-Our solar system contains eight planets. ( ✓ )  
13-Wells and springs obtain their water from aquifers. ( ✓ )  
14-Placing cows in many small grass areas is considered as sustainable situation. ( ✗ )  
15-Any object on Earth's surface is affected by repulsion force of gravity. ( ✗ )  
16-Some human activities are responsible for water pollution. ( ✓ )  
17-The orbit of each planet has an elliptical shape. ( ✓ )  
18-All people in different countries see the stars in the sky at the same time.( ✗ )  
19-Building factories is from human strategies to control and conserve fresh water. ( ✗ )  
20-Without water, all forms of life will disappear. ( ✓ )  
21-Superhot gases of the sun burn producing heat and light energies. ( ✓ )  
22-There are no living organisms live in the hydrosphere. ( ✗ )





- 23-Earth's revolution around the Sun causes day and night phenomenon. ( X )
- 24-Oceans, lakes, and rivers are included in the hydrosphere. ( ✓ )
- 25-Waterfalls are part of atmosphere. ( X )
- 26-Atmosphere and hydrosphere affect water cycle. ( ✓ )
- 27-There is an interaction between hydrosphere and geosphere when floods move soil and rocks to new places. ( ✓ )
- 28-The sun plays an important role in water cycle. ( ✓ )
- 29-A glacier contains mixture of fresh water and salt water. ( X )
- 30-Sharks in water is an example of an interaction between biosphere and geosphere. ( X )
- 31-Both ponds and streams contain salt water. ( X )
- 32-The sand in deserts is a part of geosphere. ( ✓ )
- 33-The Earth's system which contains sand and rocks is the geosphere. ( ✓ )
- 34-Lakes have fresh water only. ( X )
- 35-All living organisms need water to survive. ( ✓ )
- 36-You should drink more water instead of juice to conserve water. ( X )
- 37-Generating electricity is from the uses of water. ( ✓ )
- 38-Building dams across rivers is from human activities which cause imbalance of water. ( ✓ )
- 39-More than 10% of the world's animal species live only in freshwater habitats. ( X )
- 40-When fresh water is polluted, it becomes drinkable. ( X )
- 41-Recycling of polluted water means removing useful materials from water ( X )
- 42-Earth pulls planets to orbit the Sun. ( X )
- 43-Length of shadows of different objects don't change during day. ( X )
- 44-Air resistance is a factor that speeds up the falling objects towards the Earth. ( X )
- 45-Stars are solid objects made up of rocks. ( X )
- 46-Starfish and flounder fish are live in oceans. ( ✓ )
- 47-The sun is the biggest star in the universe. ( X )



- 48-The rotation of Earth around the sun causes day and night phenomenon. ( X )
- 49-Some ponds and lakes may dry up in winter months. ( X )
- 50-We can feel the movement of the Earth easily. ( X )
- 51-The magnet can exert a pulling force only. ( X )
- 52-The Earth takes 12 hours to make a complete cycle on its axis. ( X )
- 53-Fresh water forms 55% of hydrosphere. ( X )
- 54-The Earth revolves around its axis at a speed nearly equals 107000 km/hr ( ✓ )
- 55-Weathering rocks by rains is an example of interaction between hydrosphere and biosphere. ( X )
- 56-Constellations have similar shapes in the sky. ( X )
- 57-Oceans contain large amount of fresh water. ( X )
- 58-Gravity is a push force that causes the moving object to move. ( X )
- 59-Jupiter is the fastest planet that rotates on its axis in the solar system. ( ✓ )
- 60-Rocks are parts of the geosphere. ( ✓ )

### **Write the scientific term:**

- 1-The action of control reaching of humans to the natural resources or using them. (**Preservation**)
- 2-They are giant spheres of superhot gases most of them are hydrogen and helium. (**Stars**)
- 3-A dark object that revolves around Earth and reflects the sunlight falling on its surface. (**Moon**)
- 4-The force of attraction that changes the direction of a moving object in air towards the ground. (**Gravity**)
- 5-An imaginary line that passes through the two poles of Earth. (**axis**)
- 6-The Sun and eight planets revolving around it. (**Solar system**)
- 7-It is a group of stars, planets and gases held together by gravity. (**galaxy**)
- 8-The law which states that the force of gravity is constant and acts on all object in the same way. (**Law of Motion**)
- 9-The orbiting of Earth around the Sun. (**Revolution**)





- 10-The dark celestial bodies that revolve around the Sun in fixed orbit. ([Planets](#))
- 11-Areas of the ocean which contain coral reefs and intertidal zones.  
([Shallow area](#))
- 12-It is an area of land where all the water flows to a common location usually an ocean, a sea or other large water bodies. ([Watershed](#))
- 13-It is a medium-sized star that provides Earth with heat and light. ([Sun](#))
- 14-The water bodies that surround the continent. ([Oceans](#))
- 15-An invisible force that attracts metal objects to the magnet. ([magnetism](#))
- 16-A cycle shows the continuous movement of water from the Earth to the atmosphere then to the Earth again. ([Water cycle](#))
- 22-The system of Earth which contains all different land forms. ([geosphere](#))
- 17-The area of the coast that disappears underwater at the high tide and appears at the low tide. ([intertidal zone](#))
- 18-The type of water which is found in seas and oceans. ([salt water](#))
- 19-The land which is partially covered with water. ([wet land](#))
- 20-The water body that is formed when a river meets a sea. ([estuary](#))
- 21-A type of water which is suitable for drinking. ([freshwater](#))
- 22-A water body that often starts in the mountain as a stream. ([Rivers](#))
- 23-The force that attracts paper clips to the magnet. ([Magnetism](#))
- 24-The force that pulls all objects on Earth toward its center. ([Earth's Gravity](#))
- 25-The force that slows down the movement of objects through air. ([friction force](#))
- 26-A phenomenon takes place in oceans and seas due to the gravity of the moon. ([Tides](#))
- 27-Constellation appears in the sky as a mythical hunter. ([Orion](#))
- 28-The type of movement during the spinning of Earth around itself. ([Rotation](#))
- 29-A group of stars that make a certain shape in the sky. ([constellation](#))
- 30-The moon phase at which moon seems completely bright. ([full moon](#))
- 31-A special building with dome ceiling and used to see images of celestial bodies. ([Planetarium](#) ).



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- 32-A large body of water that surrounded by land. (Lake)
- 33-The effect of pulls or pushes an object to make it move. (Force)
- 34-They are giant spheres of superhot gases. (Stars)
- 35-The system that includes all living organisms. (Biosphere)
- 36-The large area of the world that has similar soil, climate, plants and wildlife. (Biome)
- 37-An imaginary line passing through the Earth from the north pole to the south pole. (Axis)
- 38-The system which contains animals and plants. (Biosphere)

### **-Give Reasons for:**

- 1-Water is important for all plants on Earth.  
**Because all plants need water to grow and some of them live in water.**
- 2-Water can affect nonliving things like rocks.  
**Because water can cause weathering and erosion of rocks.**
- 3-Our planet looks like a blue marble from the space.  
**Because about 71% of Earth is covered by water.**
- 4-Water that forms the hydrosphere is one of the renewable resources on Earth.  
**Because water can be replaced in nature through the water cycle.**
- 5-Importance of atmosphere for plant in making their food.  
**Because plants take carbon dioxide gas from air during photosynthesis process.**
- 6-Most of the fresh water on Earth can't be used for drinking.  
**Because most of fresh water on Earth are in the form of frozen water.**
- 7-Some ponds and lakes may dry up during some months.  
**Because when temperature increases in summer, water evaporates faster.**
- 8-No green plants can survive in the abyssal zones of oceans.  
**Because the abyssal zones don't receive sunlight, which is important for making food in plants.**
- 9-Mosquitoes lay their eggs in ponds.  
**Because pond water is a still water which keep eggs in place without motion.**



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**10-We must conserve fresh water.**

**Because there is a limited amount of fresh water on Earth.**

**11-You should turn off water tap during brushing your teeth.**

**To conserve freshwater.**

**12-Groundwater is called by this name.**

**Because it is stored in the cracks and spaces of underground rocks.**

**13-The quality of fresh water affects the life of living organisms live in it.**

**Because poor quality of fresh water leads to death of thousands of living organisms and extinction of some species live in this water.**

**14-Scientists tend to preserve freshwater sources on Earth.**

**Because the amount of freshwater is limited on Earth.**

**15-Farms near tributaries may cause water pollution.**

**Due to using chemical fertilizers that cause water pollution.**

**16-Countries prevent using or developing natural resources in some protected areas of land.**

**To preserve natural resources.**

**17-Wastewater engineers test the treated water.**

**To make sure that it is safe before the water is released to rivers and lakes or used by human.**

**18-The gravity between two objects is affected by the distance between them.**

**Because when the distance between them decreases, the gravity increases and vice versa.**

**19-The force of gravity has an important role in the solar system.**

**Because gravity between the Sun and objects in the solar system keeps the planets revolve in fixed orbits.**

**20-Paper clips are pulled toward the magnet.**

**Due to the force of magnetism.**

**21-The ball changes its direction after we throw it upward.**

**Because gravity force always pulls it downwards.**

**22-Gravity of Earth is greater than gravity of the moon.**

**Because mass of the Earth is greater than mass of the moon.**



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**23-You always land to the ground when you jump up.**

**Because Earth pulls you by the effect of gravity.**

**24-Skydiver opens his parachute during landing.**

**To slow down his speed on landing due to the air resistance.**

**25-When you press the bicycle brake, its speed will stop moving after few seconds.**

**Because the brakes produce friction force which slows the movement of the bicycle.**

**26-Some iron nails are attracted to a magnet.**

**Because magnetism force pulls them to the magnet.**

**27-Air resistance affects the movement of an object which falls from a height.**

**Because it slows down the movement of an object during its falling.**

**28-Planets revolve around the sun in fixed orbits.**

**Due to the great gravitational pulling force between the sun and the planets.**

**29-Occurrence of day and night.**

**Due to the rotation of Earth around its axis.**

**30-Half of Earth appears dark at night.**

**Because it doesn't receive sunlight.**

**31-The Sun appears as it moves across the sky.**

**Due to the rotation of Earth on its axis.**

**32-Occurrence of seasons.**

**Due to the revolution of Earth around the sun.**

**33-Occurrence of different sunrise and sunset times each day on Earth.**

**Because the Earth is slightly tilted on its axis and it revolves around the Sun in an oval orbit.**

**35-Although Earth rotates on its axis, we don't feel its movement.**

**Because we are moving with the same speed of the Earth.**

**36-The length of the shadow of an object changes throughout the day.**

**Due to the change in the position of the sun in the sky.**



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**37-In the night sky, some stars seem to rise and set like the Sun.**

**Due to the Earth rotation on its axis.**

**38-Stars seem to move in the sky.**

**Due to the Earth rotation on its axis.**

**39-The moon appears bright in the sky at night.**

**Because it reflects the sunlight.**

**40-If we are travelling in desert, stars may help us to determine our correct way across the desert.**

**Because the location of the constellations in the sky during the year, help us to determine the main directions on Earth.**

**41-The moon is a dark body, but we see it shiny at night.**

**Because it reflects sunlight.**

**42-Earth and the moon are not considered stars.**

**Because they don't give off their own light.**

**43-The moon has different phases in the night sky.**

**Due to :**

**1-Moon's revolution around Earth.**

**2-Earth revolution around sun.**

**3-Both Earth and the moon revolve together around the Sun.**

**44-The sun looks much larger to us than other stars.**

**Because the Sun is the closest star to Earth.**

**45-Atmosphere limits the using of some telescopes to see distant celestial bodies.**

**Because atmosphere allows some light waves to pass to the Earth and blocks other.**

**46-Stars appear bright in the sky at night.**

**Because stars produce light.**

**47-The moon is attracted to the Earth.**

**Because gravitational forces of Earth is greater than gravitational forces of moon.**



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**48-Gravitational force depends on the distance**

**Because when the distance between two objects decreases, the gravity increases and vice versa.**

**-What happens if:**

**1-A river meets the salt water of a sea.**

**An estuary is formed.**

**2-Plants cannot get carbon dioxide gas from air.**

**They will not be able to make their food by photosynthesis process.**

**3-People don't conserve fresh water.**

**The amount of fresh water on the Earth will decrease.**

**4-Water is collected in a low lying area.**

**A lake is formed.**

**5-The quality of fresh water becomes poor.**

**It leads to death of living organisms and extinction of some species live in fresh water.**

**6-The rate of rainfall increases on rivers.**

**The level of water in this river will increase causing floods.**

**7-A trash dump is established near a tributary that is connected with a river.**

**The litter of the trash dump will be blown into the water of tributary then into the river causing water pollution.**

**8-The distance between the moon and Earth increases to twice.**

**The gravitational attraction between them would become smaller.**

**9-The mass of the moon decreases to half.**

**The moon would have less gravity.**

**10-There is no gravity on Earth.**

**All objects on its surface will float off into space.**

**11-The gravity of Earth is a repulsion force not an attraction force.**

**All objects on Earth will move upward away from the Earth's surface.**

**12-The gravity between two bodies when their masses decreases.**

**The gravitational attraction will decrease.**



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13-A metal ball and a feather are fallen down from a tower.

The metal ball will reach the ground first.

14-You throw two iron balls have the same mass from the same height.

They will reach the ground at the same time.

15-There is no air resistance and two objects with different masses are thrown from the same height.

They will reach the ground at the same time.

16-The Earth doesn't rotate on its axis.

Phenomenon of day and night will not happen.

17-Half of Earth faces the sun.

This half had day.

18-Earth complete its spinning on its axis in 12 hours only.

Day and night phenomenon happens in 12 hours only.

19-Earth's axis is not tilted.

Sunrise and sunset times will be similar each day on Earth.

20-Stars are not made up of hot gases.

Stars cannot make their own light.

21-Sunlight falls on the moon's surface.

The moon seems bright.

22-Half of the moon faces the Sun.

This half will appear bright.

23-The mass of the sun decreases than it is now.

The gravity of sun will decrease.

24-You throw a ball into air.

The ball will go up into the air, then fall down back to the ground due to the gravity force.

25-The gravity of the sun disappear (relative to planets).

Planets will leave their orbits and float off into space.

26-The Earth rotates on its axis.

Phenomenon of day and night will happen.



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## Variant Questions:

(A) Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Geosphere	a. contains oxygen and nitrogen gases.
2. Atmosphere	b. contains rocks and sand.
3. Biosphere	c. contains fresh water and salt water.
4. Hydrosphere	d. contains animals and plants.
	e. contains clouds and molten rocks.

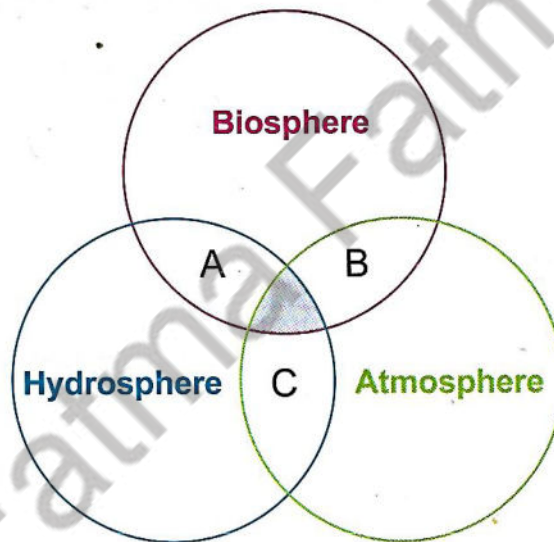
1. **b**.....

2. **a**.....

3. **d**.....

4. **c**.....

(B) The following model shows a diagram containing three interacted Earth's spheres. Read these sentences, then put (✓) or (X) :



1. Area (B) can represent a student respire in oxygen gas.

( ✓ )

2. Area (A) can represent small rocks in an ocean.

( X )

3. Area (C) can represent evaporation of sea water forming clouds and falling of rains.

( ✓ )



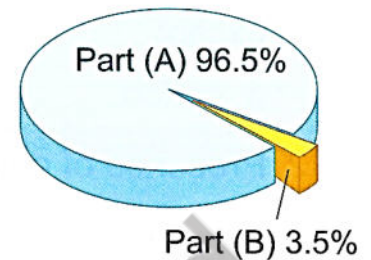
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**(B) Look at the opposite graph, then complete the sentences below :**

1. Part ..... **B** ..... represents fresh water, while part ..... **A** ..... represents salt water.
2. The type of water which human can drink, is represented by part ..... **B** .....
3. An ocean is an example of water bodies which are included in part ..... **A** .....



**(A) Choose from column (B) what suits it in column (A) :**

(A)	(B)
1. Cotton	a. can be used in making plastic.
2. Oil products	b. can be used in making paper.
3. Trees	c. can be used in making clothes.
	d. can be used in making cans.

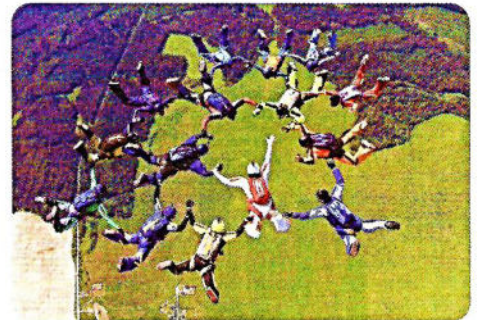
1. .... **c** .....

2. .... **a** .....

3. .... **b** .....

**(B) Look at the opposite figure, then choose the correct answer from those between brackets :**

1. The force that causes skydivers to move down is called .....  
(gravity of Earth – gravity of moon – gravity of Sun)
2. When skydivers open their parachuts they are attracted to .....  
(Earth's center – moon's surface – the sky)



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**(B) Imagine that jar (A) contains air while jar (B) doesn't contain air. Choose the correct answer :**

1. The two bodies in jar (A) are affected by .....

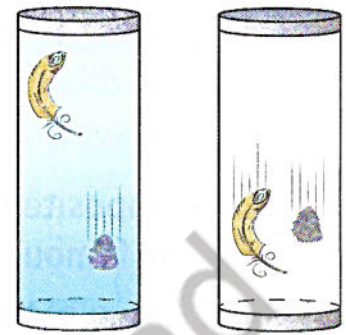
- a. gravity force only.
- b. friction force only.
- c. air resistance and gravity.
- d. gravity and electricity.

2. The two bodies in jar (B) are affected by .....

- a. gravity force only.
- b. air resistance only.
- c. air resistance and gravity.
- d. gravity and electricity.

3. In jar (A), the rock reaches faster than the feather because it has .....

- a. higher surface area.
- b. higher temperature.
- c. less mass.
- d. lower surface area.



Jar (A)

Jar (B)

**(A) Choose from column (B) what suits it in columns (A) :**

(A)	(B)
1. The word "Geo" refers to	a. Water
2. The word "Hydro" refers to	b. Earth
3. The word "Atoms" refers to	c. Life
4. The word "bio" refers to	d. Vapor
	e. Sun

1. ....**b**.....

2. ....**a**.....

3. ....**d**.....

4. ....**c**.....

**(B) The opposite figure illustrate one of the famous constellations :**

1. The name of this constellation is .....

(Orion – Leo)

and it looks like a .....

(horse – hunter)

2. This constellation consists of a group of .....

(planets – stars)

3. The position of this constellation seems to appear at different locations due to .....

(Earth's rotation on its axis – Earth's revolution around the Sun)





**(B) Choose from column (B) what suits it in column (A) :**

(A)	(B)
1. Jupiter	a. is a human-made satellite.
2. International Space Station	b. is the center of the solar system.
3. Earth	c. is the fastest rotating planet that rotates on its axis.
4. The Sun	d. is the planet that completes one cycle on its axis in 24 hours.
	e. is the path in which planets revolve around the Sun.

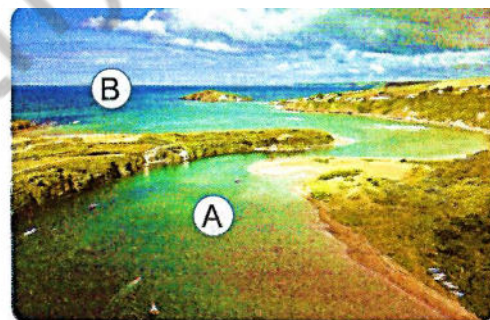
1. ....**C**.....

2. ....**a**.....

3. ....**d**.....

4. ....**b**.....

**(A) Look at the opposite picture, in which area (A) shows a river and area (B) shows an ocean, then choose the correct answer.**



1. Water lilies can be found in .....

a. area (A).

b. area (B).

c. both area (A) and area (B).

d. neither area (A) nor area (B).

2. All the following organisms can be found in area (B), except .....

a. dolphin.

b. starfish.

c. flounder fish.

d. frog.



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**(B) Look at the following figures then answer the following questions below :**

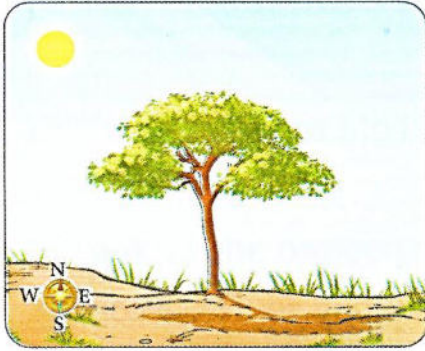


Figure (A)

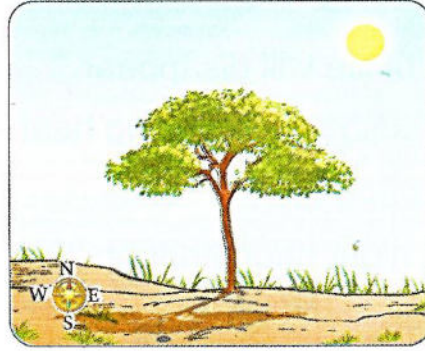


Figure (B)

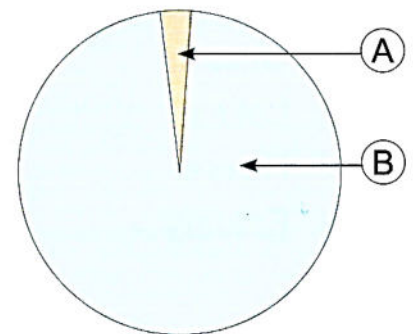


Figure (C)

- The shadow of the tree will be longer at .....  
 a. figure (A) only.                      b. figure (C) only.  
 c. figure (B) and figure (C).        d. figure (A) and figure (B).
- The time at which figure (C) illustrates is .....  
a. 12 p.m.              b. 10 a.m.              c. 2 a.m.              d. 3 p.m.
- At noon the Sun is located above us during its movement that can be represented by .....  
 a. figure (A) only.                      b. figure (C) only.  
 c. figure (B) and figure (C).        d. figure (A) and figure (B).

**(A) Look at the opposite graph that shows the percentage of both salt water and fresh water in Earth's hydrosphere, then put (✓) or (✗) :**

- Area (A) represents salt water.                      ( ✗ )
- Seas and oceans are examples of water bodies that belong to area (B).                      ( ✓ )
- During water cycle, water evaporates from both areas (A) and (B).                      ( ✓ )
- The type of water in rivers belongs to area (A).                      ( ✓ )

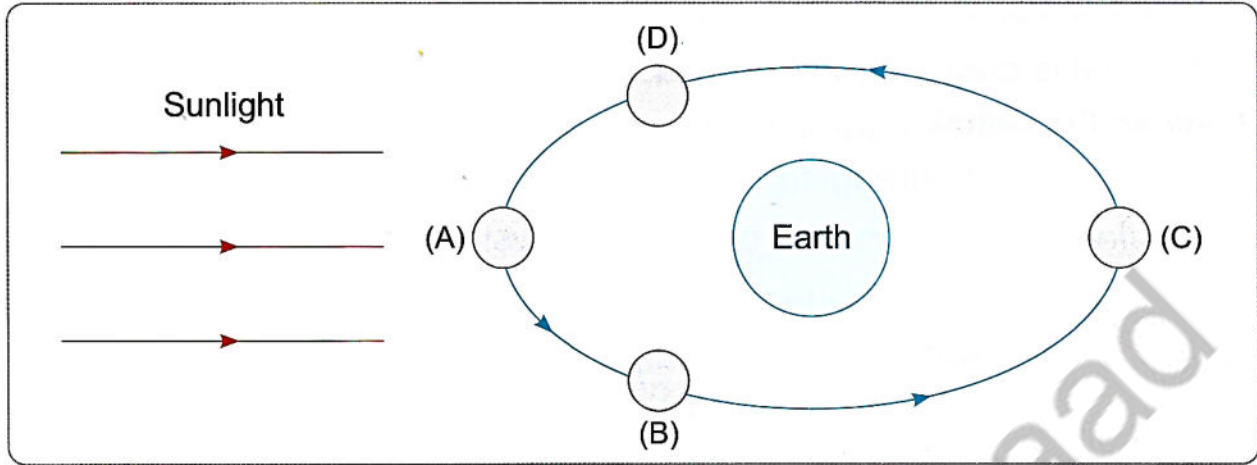


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(B) Look at the following figure then choose the correct answer :



1. The celestial body that revolves around Earth in this figure is .....  
(the moon – the Sun – Jupiter)
2. The moon phase at position (A) is .....  
(full moon – new moon – crescent)
3. The moon phase at position (C) is .....  
(full moon – new moon – crescent)

(A) Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Dolphin	a. can be used in making plastic.
2. Salmon	b. lives in fresh water.
3. Oil products	c. lives in salt water.
4. Cotton	d. can be used in making cans.
	e. can be used in making clothes.

1. c

2. b

3. a

4. e



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